BTL-4000 Electrotherapy

LIST OF DIAGNOSES

V100TN05/05/2004

E L E C T R O T H E R A P Y

1 A C H I L L O D Y N I A

Program	E-0011 hyaluronidase iontophoresis
Therapy parameters	current: galvanic type: interrupted 8000 Hz cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional at the Achilles tendon - anode (active - hyaluronidase solution), cathode (indifferent - cathode protective solution), size of electrodes 4x6 cm
Length of application	30 min.
Frequency of treatments	2 - 3x per week
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	analgesic, trophic, antiedematous
Note	anode solution (components of hyaluronidase solution): solution 1 (acetate puffer): = natrii acetici - 11.5 g = acidi acetici gracialis - 0.95 g = aquae destillatae - ad 1000 ml solution 2 (hyaluronidase): = dissolve 1 vial of hyaluronidase in 1 vial of redistilled water (5)

2 A C H I L L O D Y N I A 2

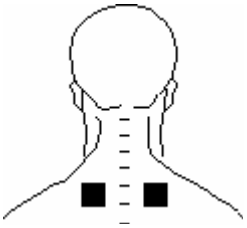
Program	E-0169 diadynamic current CP-ISO
Therapy parameters	current: diadynamics type: CP-ISO cc/cv mode: cc polarity: positive revers. with interrupt. base: 20 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	transregional at the achilles tendon and its calcaneal insertion; size of electrodes 4x6 cm
Length of application	8 min. (positive reversal with interruption)
Frequency of treatments	daily
Number of treatments	5
Intensity	from below threshold motor level to threshold motor level (according to the patient's endurance)
Effect	analgesic, antiedematous (6)

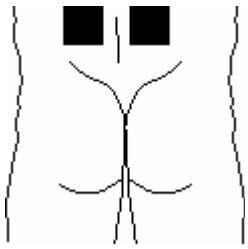
3 A C R O C Y A N O S I S

Program	E-0001 longitudinal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	cathodes (6x8 cm) of individual channels upon foot soles, both anodes (6x8 cm) paravertebrally at the level of L3-S1 segments
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm²
Effect	trophic
Note	Use protective solutions. Use both channels of the equipment. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (2)

4 ACROCYANOSIS 2

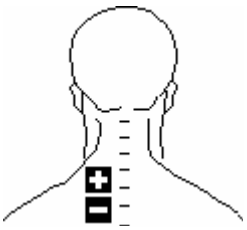
Program	E-0001 paravertebral resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 4x6 cm at the affected side paravertebrally in the C5-Th1 area for upper extremities and L3-S1 area for lower extremities, cathode 4x6 cm counterlaterally paravertebrally towards anode
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm²
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (3)

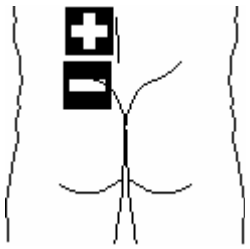




5 ACROCYANOSIS 3

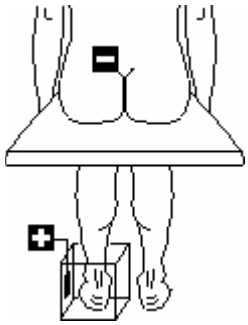
Program	E-0001 segmental resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode above and cathode below the outflow of segments which innervate the affected extremity (in the C5-Th1 area for upper limbs and the L3-S1 area for lower limbs)
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm²
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (526)





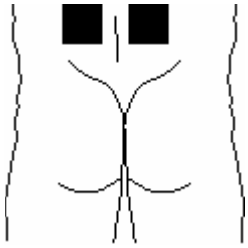
6 ALGODYSTROPHIC SYNDROME - LOWER LIMB

Program	E-0111 diadynamic current DF
Therapy parameters	current: diadynamics type: DF cc/cv mode: cc polarity: positive base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	cathode 8x12 cm paravertebral in the L3-S1 area, anode in the form of isothermal water bath on the affected lower extremity
Length of application	max. 6 min
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. If using cathode protective solution it is possible to extend the time of application to 10 - 12 min. Composition of the protective solution: cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (159)



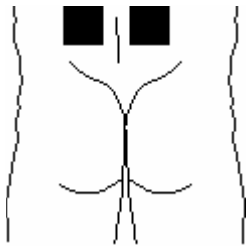
7 ALGODYSTROPHIC SYNDROME - LOWER LIMB 2

Program	E-0118 diadynamic current DF with pole reversal
Therapy parameters	current: diadynamics type: DF cc/cv mode: cc polarity: positive revers. with interrupt. base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes 8x12 cm paravertebrally in the L3-S1 area
Length of application	10 min., reversal with interruption in the middle of therapy
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (160)



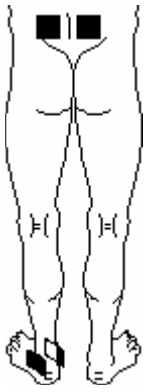
8 ALGODYSTROPHIC SYNDROME - LOWER LIMB 3

Program	E-0940 2-pole interference 4 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	plate electrodes 8x12 cm paravertebrally in the L3-S1 area
Length of application	12 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (161)



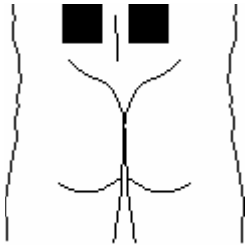
9 ALGODYSTROPHIC SYNDROME - LOWER LIMB 4

Program	E-1832 TENS 100 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 100 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	1. circuit: plate electrodes 4x6 cm paravertebral in the L3-S1 area 2. circuit: plate electrodes 4x6 cm transregional at the acrum in the point of affection
Length of application	20 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	analgesic
Note	Keep the above-threshold sensitive intensity during the whole application. Application at the acrum use only at mild stages of algodystrophia. Use 2 channels or channel division (A+B). (162)



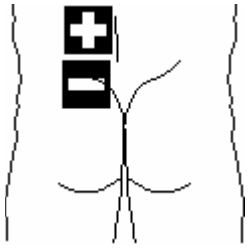
10 ALGODYSTROPHIC SYNDROME - LOWER LIMB 5

Program	E-0001 paravertebral resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 4x6 cm at the affected side paravertebrally in the L3-S1 area, cathode 4x6 cm counterlaterally paravertebrally towards anode
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic, analgesic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (163)



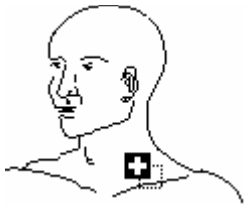
11 ALGODYSTROPHIC SYNDROME - LOWER LIMB 6

Program	E-0001 segmental resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode above and cathode below the outflow of segments which innervate the affected extremity (L3-S1)
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic, analgesic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (527)



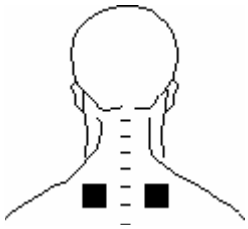
12 ALGODYSTROPHIC SYNDROME - UPPER LIMB

Program	E-0111 diadynamic current DF
Therapy parameters	current: diadynamics type: DF cc/cv mode: cc polarity: positive base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	cathode 4x6 cm above the ganglion stellatum
Length of application	max. 6 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. If using cathode protective solution it is possible to extend the time of application to 10 - 12 min. Make sure that the cathode is not placed above the larynx or sinus caroticus. Composition of the protective solution: cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (165)



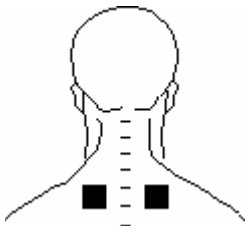
13 ALGODYSTROPHIC SYNDROME - UPPER LIMB 2

Program	E-0118 diadynamic current DF with pole reversal
Therapy parameters	current: diadynamics type: DF cc/cv mode: cc polarity: positive revers. with interrupt. base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes 6x8 cm paravertebrally in the C5-Th1 area
Length of application	10 min., reversal with interruption in the middle of treatment
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (166)



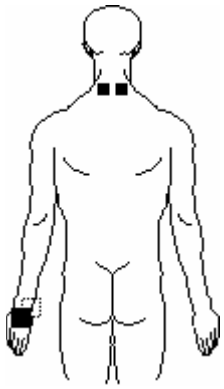
14 ALGODYSTROPHIC SYNDROME - UPPER LIMB 3

Program	E-0940 2-pole interference 4 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	plate electrodes 6x8 cm paravertebrally in the C5-Th1 area
Length of application	12 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (167)



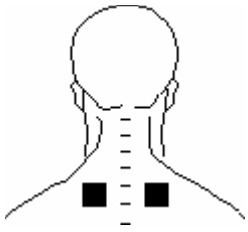
15 ALGODYSTROPHIC SYNDROME - UPPER LIMB 4

Program	E-1832 TENS 100 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 100 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	1. circuit: plate electrodes 4x6 cm paravertebral in the C5-Th1 area 2. circuit: plate electrodes 4x6 cm transregional at the acrum in the point of affection
Length of application	20 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	analgesic
Note	Keep the above-threshold-sensitive intensity during the whole application. Application at the acrum use only at mild stages of algodystrophia. Use 2 channels or channel division (A+B). (168)



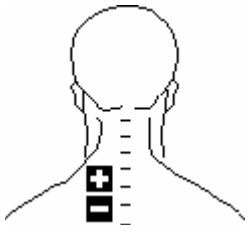
16 ALGODYSTROPHIC SYNDROME - UPPER LIMB 5

Program	E-0001 paravertebral resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 4x6 cm at the affected side paravertebrally in the C5-Th1 area, cathode 4x6 cm counterlaterally paravertebrally towards anode
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic, analgesic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (169)



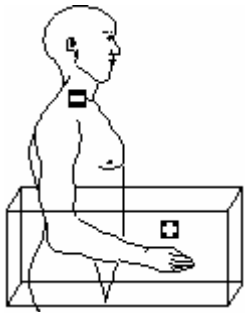
17 ALGODYSTROPHIC SYNDROME - UPPER LIMB 6

Program	E-0001 segmental resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode above and cathode below the outflow of segments which innervate the affected extremity (C5-Th1)
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic, analgesic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (528)



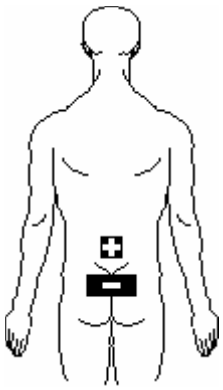
18 ALGODYSTROPHIC SYNDROME - UPPER LIMB 7

Program	E-0111 diadynamic current DF
Therapy parameters	current: diadynamics type: DF cc/cv mode: cc polarity: positive base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	cathode 4x6 cm above the ganglion stellatum, anode in the form of isothermal water bath on the affected upper extremity
Length of application	max. 6 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. If using cathode protective solution it is possible to extend the time of application to 10 - 12 min. Make sure that the cathode is not placed above the larynx or sinus caroticus. Composition of the protective solution: cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (170)



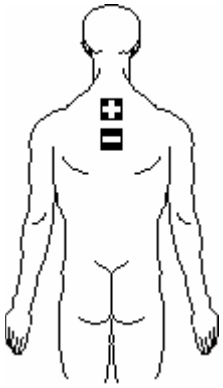
19 ARTERITIS (LOWER LIMB)

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 4.: cranial anode 8x12 cm (50 - 100 cm2) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (8)



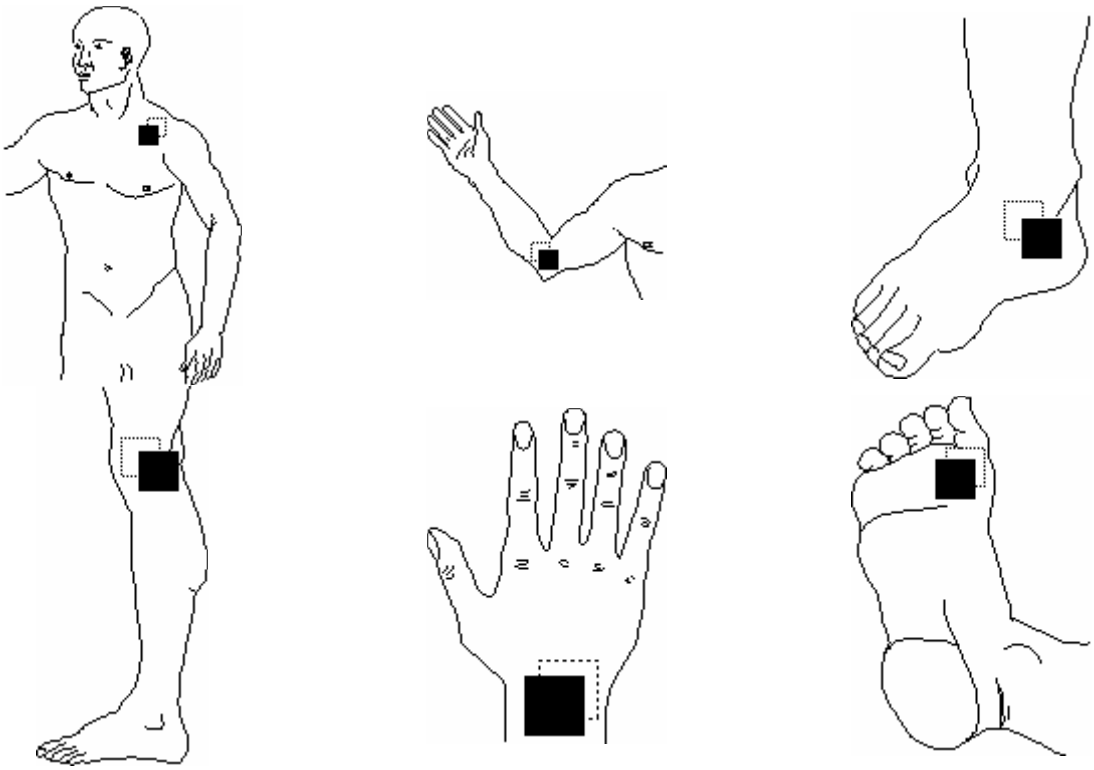
20 ARTERITIS (UPPER LIMB)

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 2.: cranial anode 8x12 cm (50 - 100 cm2) at the lower cervical spine (C5-Th1), caudal cathode 8x12 cm at the upper thoracic spine (Th3-Th5)
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (10)



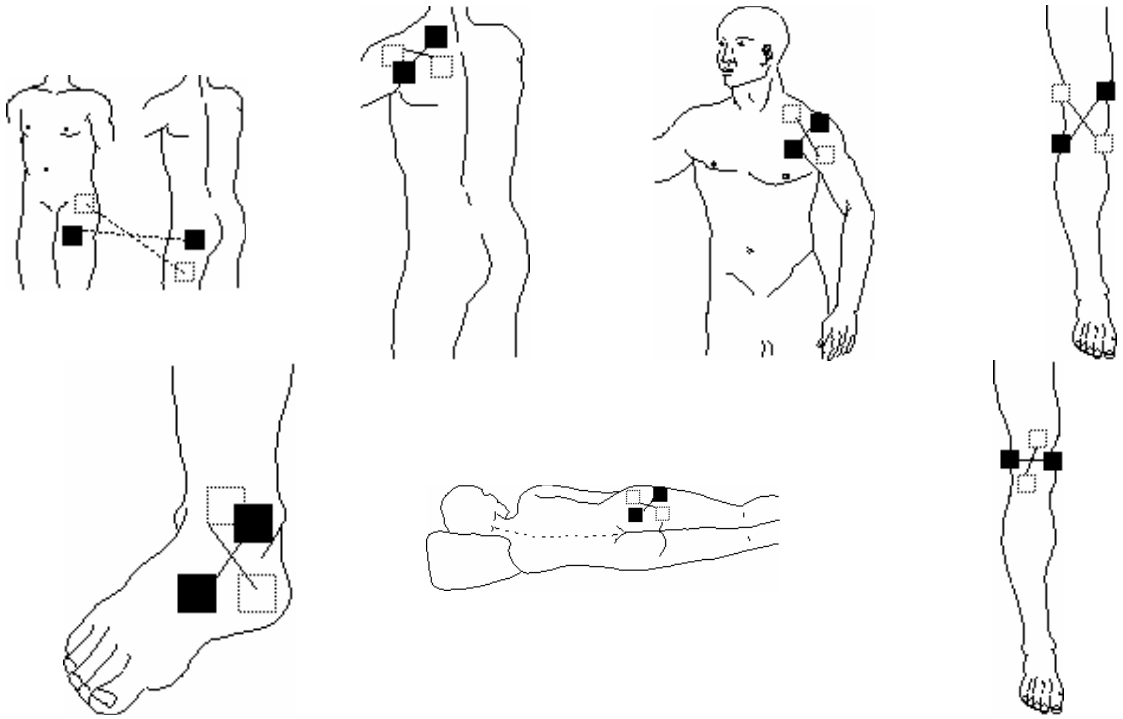
21 ARTHRITIS RHEUMATICA

Program	E-2749 2-pole interference 10 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 150 Hz spectrum: 50 Hz sweep: continuous rise: 1 s surge: 6 s fall: 1 s pause: 6 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint transregional in the current path
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	from above threshold sensitivity to threshold motor level (muscle fasciculation) for AMF
Effect	myorelaxation, analgesic, trophic
Note	It is also possible to use plate electrodes. (12)



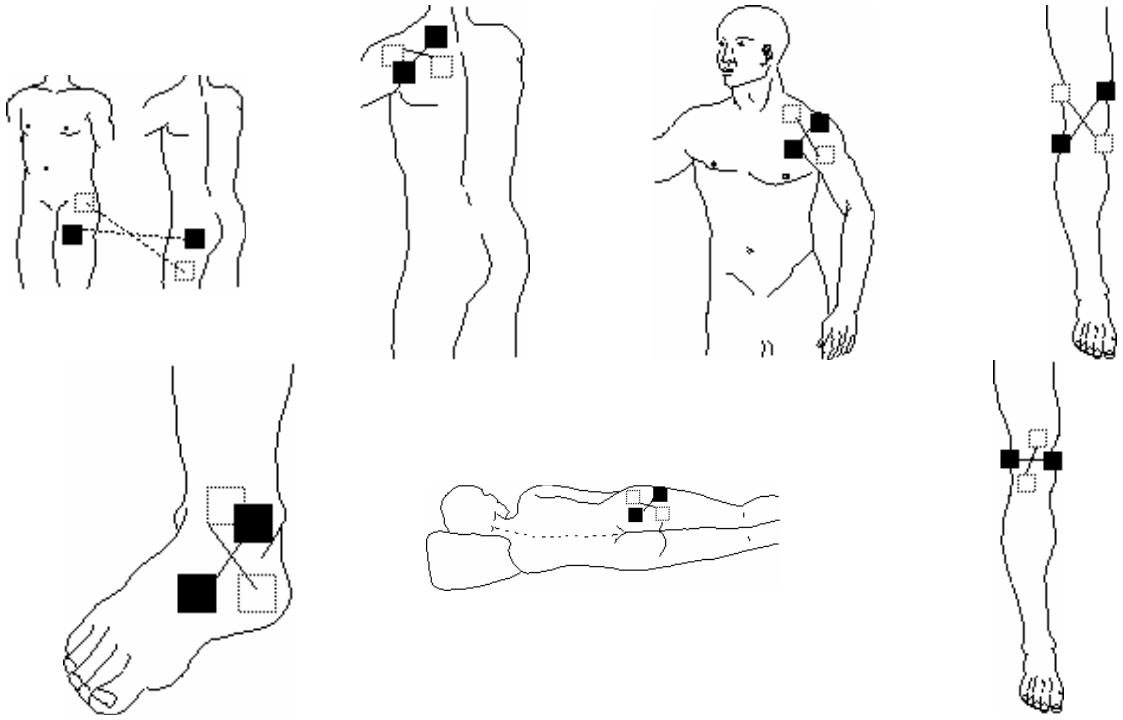
22 ARTHRITIS RHEUMATICA 2

Program	E-2090 isoplanar interference 4 kHz
Therapy parameters	current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 200 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	at threshold motor level at the beginning of treatment, do not keep
Effect	myorelaxation, analgesic
Note	It is also possible to use plate electrodes. (13)



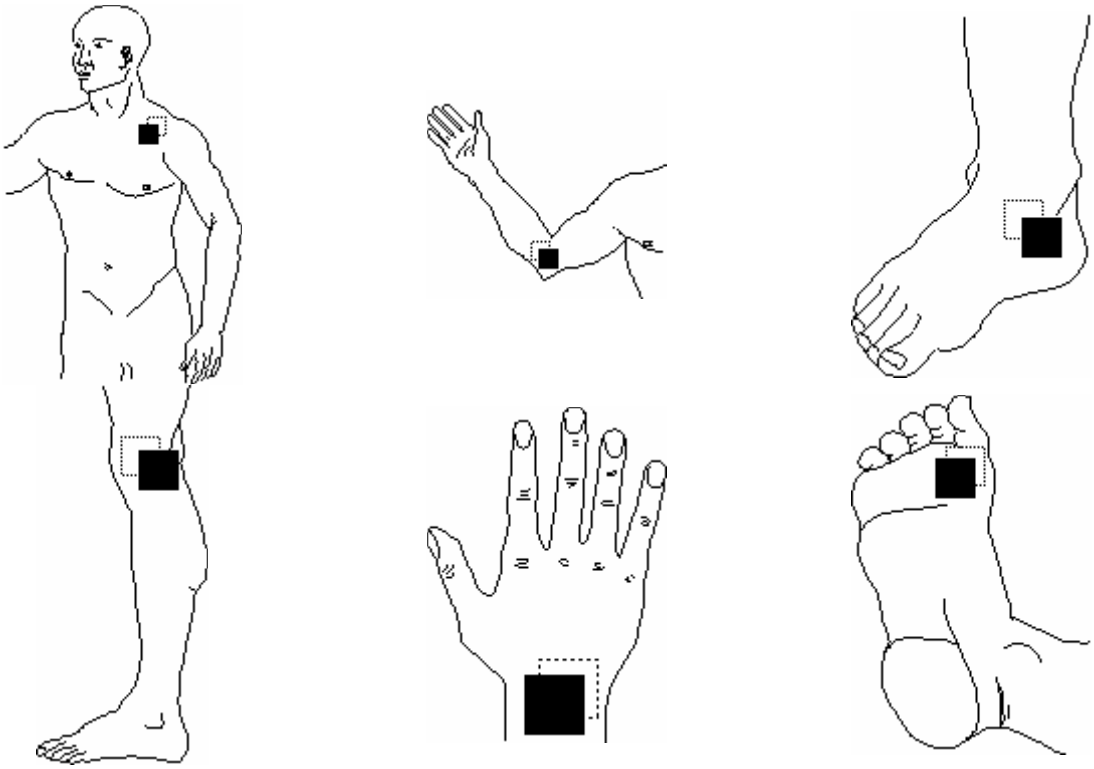
23 ARTHROSIS ACUTA

Program	E-2165 isoplanar interference 10 kHz
Therapy parameters	current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 90 Hz spectrum: 20 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s sweep time: 12 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	15 min., step 1 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic
Note	It is also possible to use plate electrodes. (15)



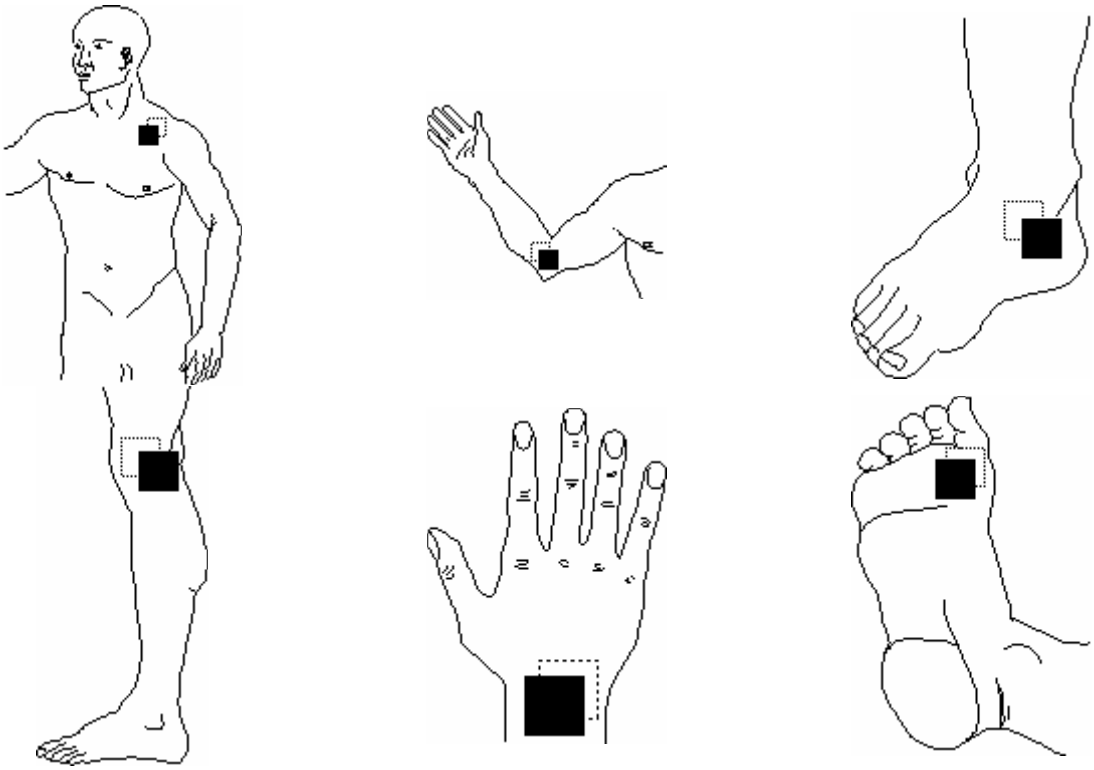
24 ARTHROSIS ACUTA 2

Program	E-1905 diadynamic current DF + LP
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional
Length of application	6 min. (DF 1 min. + LP 5 min., with interruption)
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	above threshold sensitivity for DF and for the 100 Hz component of LP current
Effect	analgesic (16)



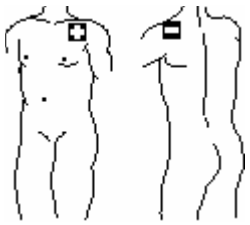
25 ARTHROSIS ACUTA 3

Program	E-4515 TENS 30 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 30 us pulse freq.: 100 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional
Length of application	15 - 20 min., step 1 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic (17)



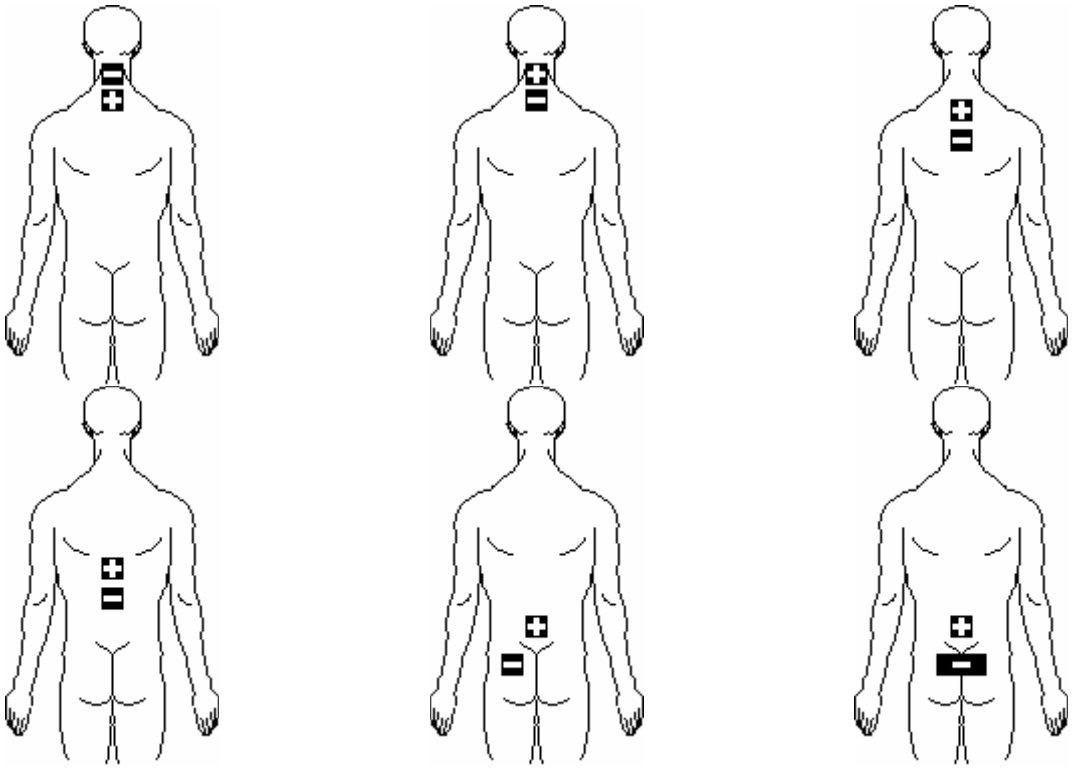
26 ARTHROSIS ACUTA 4

Program	E-5737 TENS 300 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 0.5 Hz contact check: no
Position of electrodes	neural application by active tip cathode above the sensitive nerve which innervates the treated joint, indifferent plate anode 100 cm2 transregional to the cathode
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold of pain (up to the highest endurable level)
Effect	analgesic
Note	CV mode. (18)



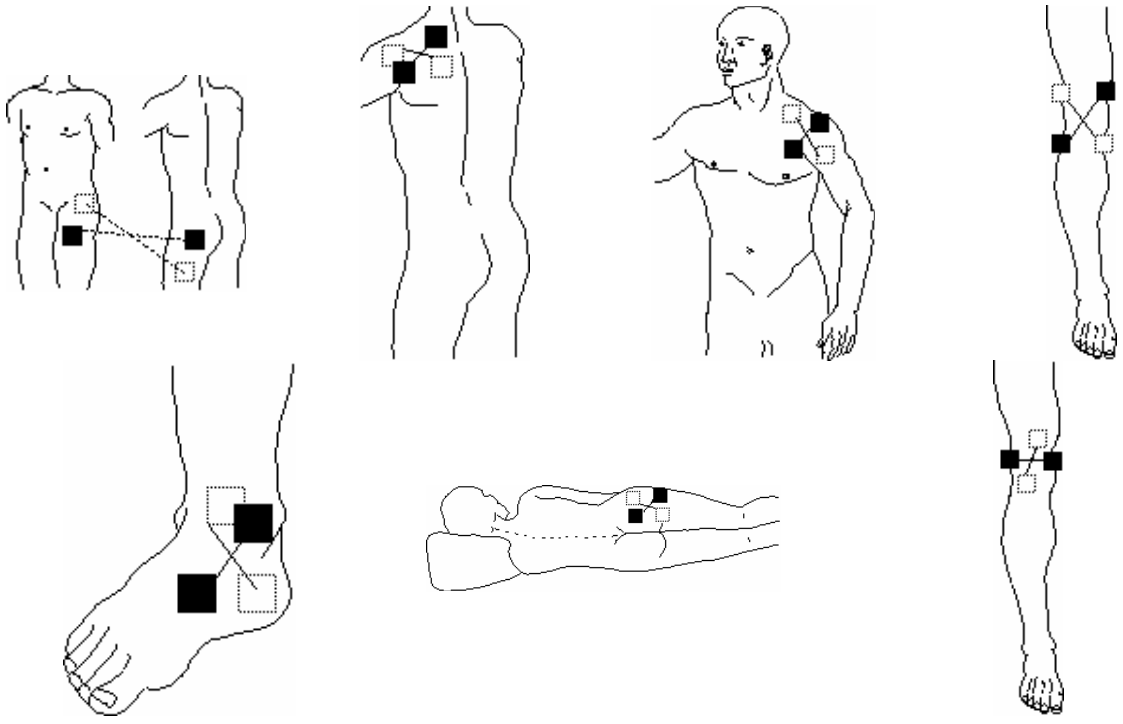
27 ARTHROSIS ACUTA 5

Program	E-0012 träbert current
Therapy parameters	current: interrupted pulses type: rectangular monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz contact check: yes
Position of electrodes	plate electrodes 100 cm2 in segmental location to the treated joint (EL 1. - EL 4.)
Length of application	15 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic (19)



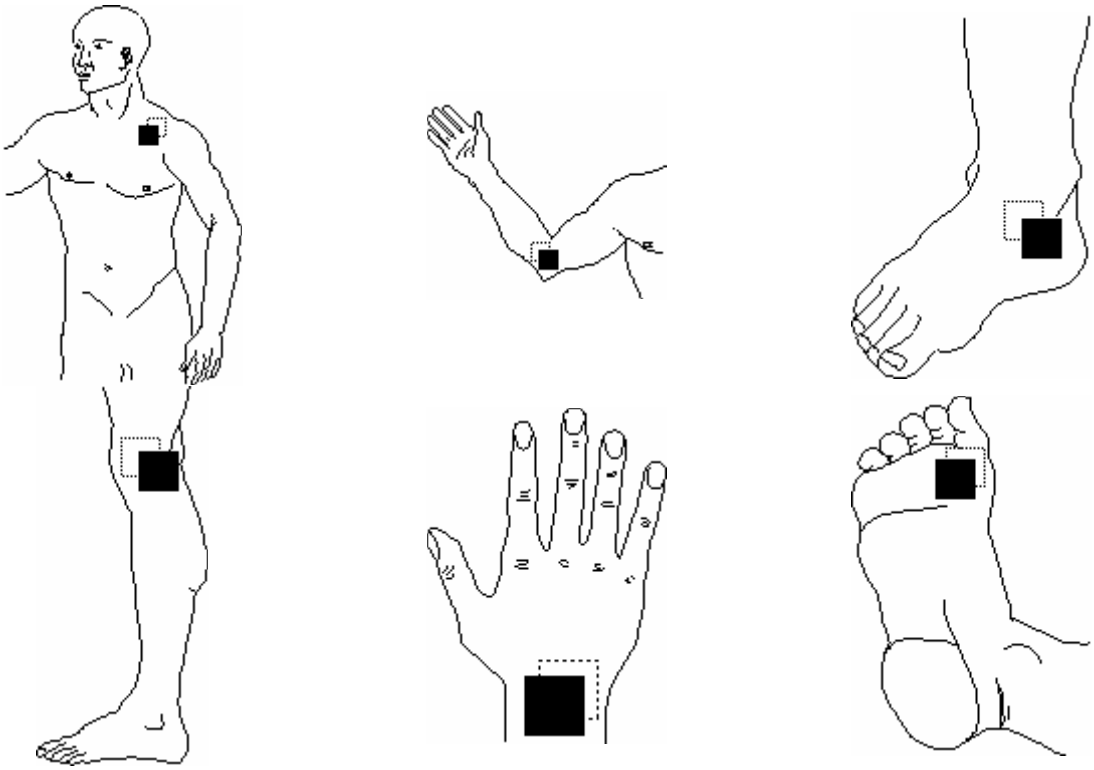
28 ARTHROSIS CHRONICA

Program	E-2359 dipole vector field 10 kHz
Therapy parameters	current: special interference type: dipole manual cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 70 Hz spectrum: 60 Hz sweep: continuous rise: 1 s surge: 4 s fall: 1 s pause: 4 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	6 - 20 min., step 2 min.
Frequency of treatments	every other day
Number of treatments	8
Intensity	above threshold sensitivity for AMF
Effect	analgesic
Note	It is also possible to use plate electrodes. In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain). Then it is switched over to the therapeutic mode and the above-threshold-sensitive intensity is set as maximum. (21)



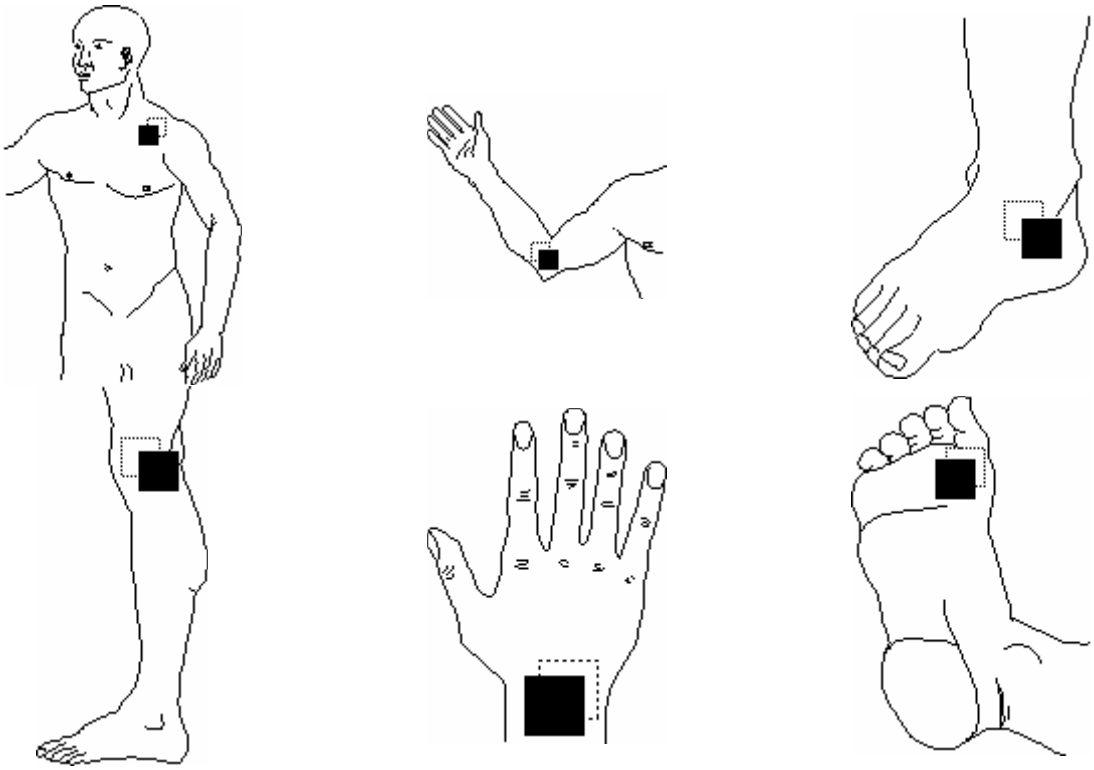
29 ARTHROSIS CHRONICA 2

Program	E-0149 diadynamic current LP
Therapy parameters	current: diadynamics type: LP cc/cv mode: cc polarity: positive. reversal with interruption base: 1 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional
Length of application	10 min., positive, reversal with interruption in the middle of treatment
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	above threshold sensitivity for the 100 Hz component of LP current
Effect	analgesic (22)



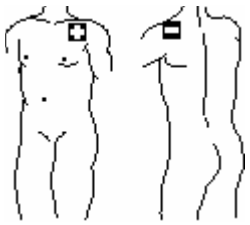
30 ARTHROSIS CHRONICA 3

Program	E-5115 TENS 150 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 150 us pulse freq.: 100 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional
Length of application	15 - 20 min., step 1 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic (23)



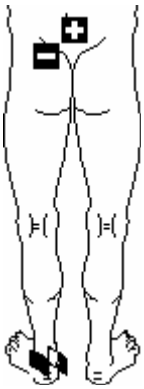
31 ARTHROSIS CHRONICA 4

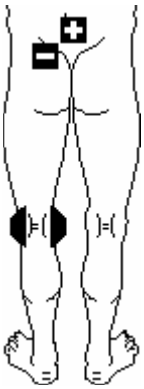
Program	E-5738 TENS 300 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	neural application by active tip cathode above the sensitive nerve which innervates the treated joint, indifferent plate anode 100 cm2 transregional to the cathode
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold of pain (up to the highest endurable level)
Effect	analgesic
Note	CV mode. (24)

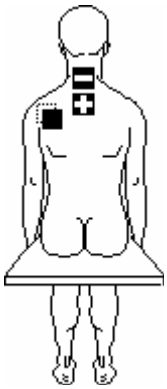


32 ARTHROSIS CHRONICA 5

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	1. circuit: plate electrodes 100 cm2 in segmental location to the treated joint (EL 1. - EL 4.) 2. circuit: plate electrodes transregional to the treated joint
Length of application	15 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Only segmental treatment can be used. Never treat the joint locally without simultaneous segmental application. Use 2 channels or channel division (A+B). (25)

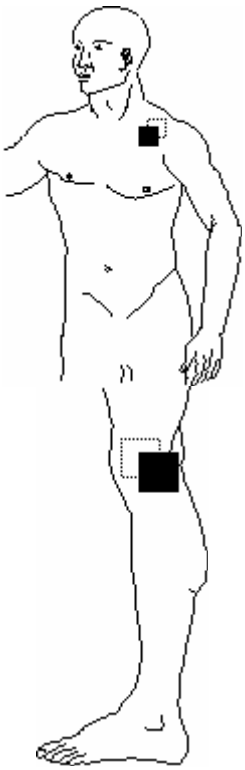


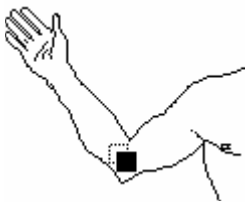


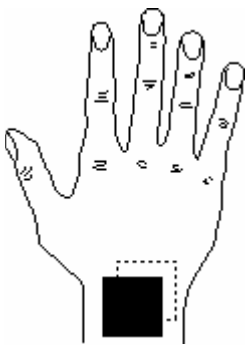


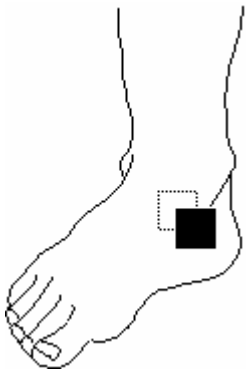
33 ARTHROSIS CHRONICA 6

Program	E-0001 transversal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional at the affected joint
Length of application	30 - 60 min., step. 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic, antiedematous
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (26)



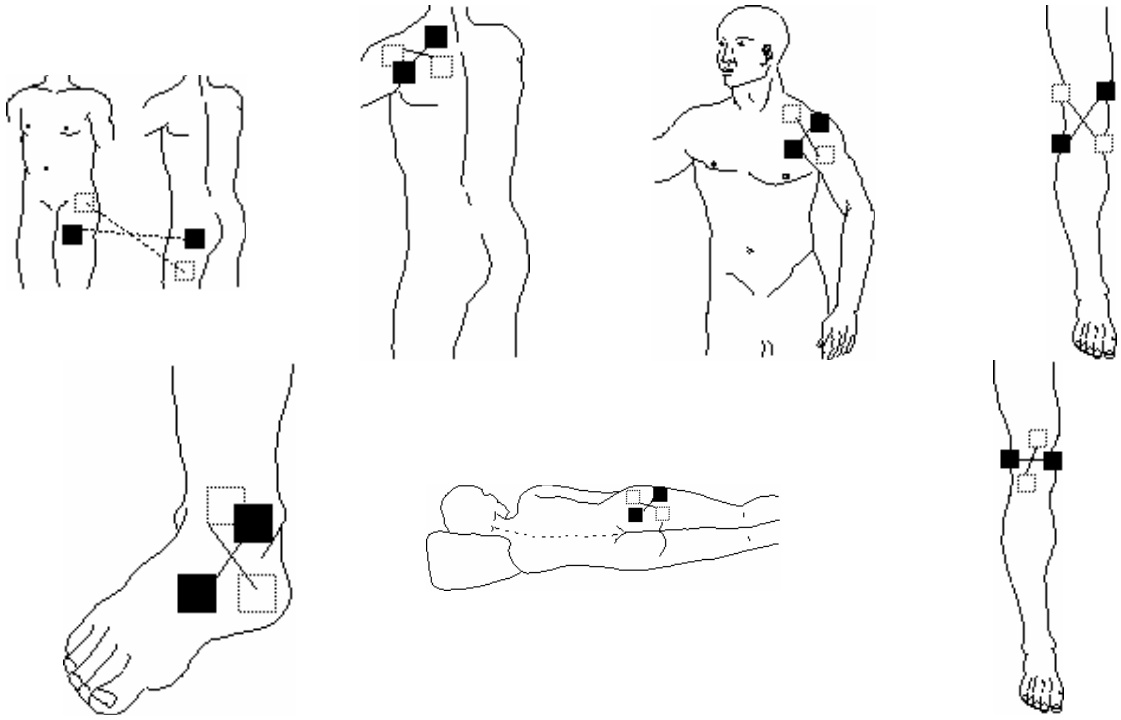






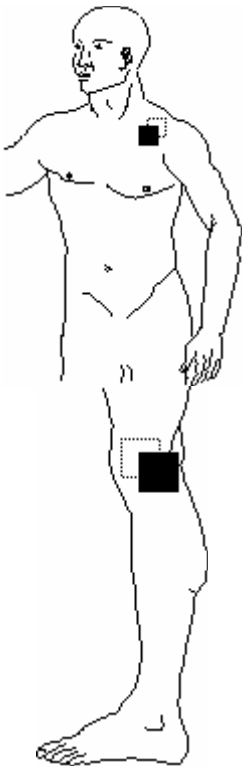
34 ARTHROSIS OEDEMATOSUS

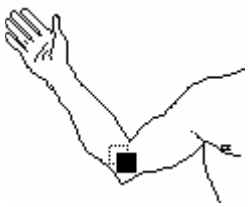
Program	E-5800 isoplanar interference 4 kHz
Therapy parameters	current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 50 Hz spectrum: 70 Hz sweep: continuous rise: 2 s surge: 4 s fall: 2 s pause: 4 s sweep time: 10 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	5 - 15 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold motor level for AMF
Effect	antiedematous, trophic, myostimulation
Note	It is also possible to use plate electrodes. (28)

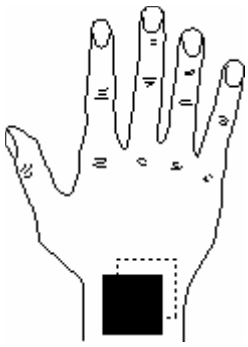


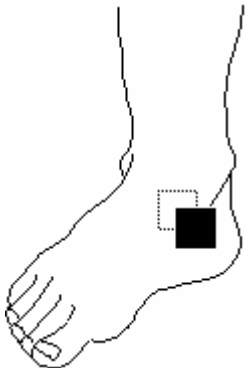
35 ARTHROSIS OEDEMATOSUS 2

Program	E-0162 diadynamic current CP-ISO
Therapy parameters	current: diadynamics type: CP-ISO cc/cv mode: cc polarity: positive base: 0.5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional
Length of application	12 min., positive, reversal with interruption in the middle of treatment
Frequency of treatments	daily
Number of treatments	5
Intensity	from below threshold motor level to threshold motor level (according to the patient's endurance)
Effect	antiedematous, trophic, myostimulation (29)



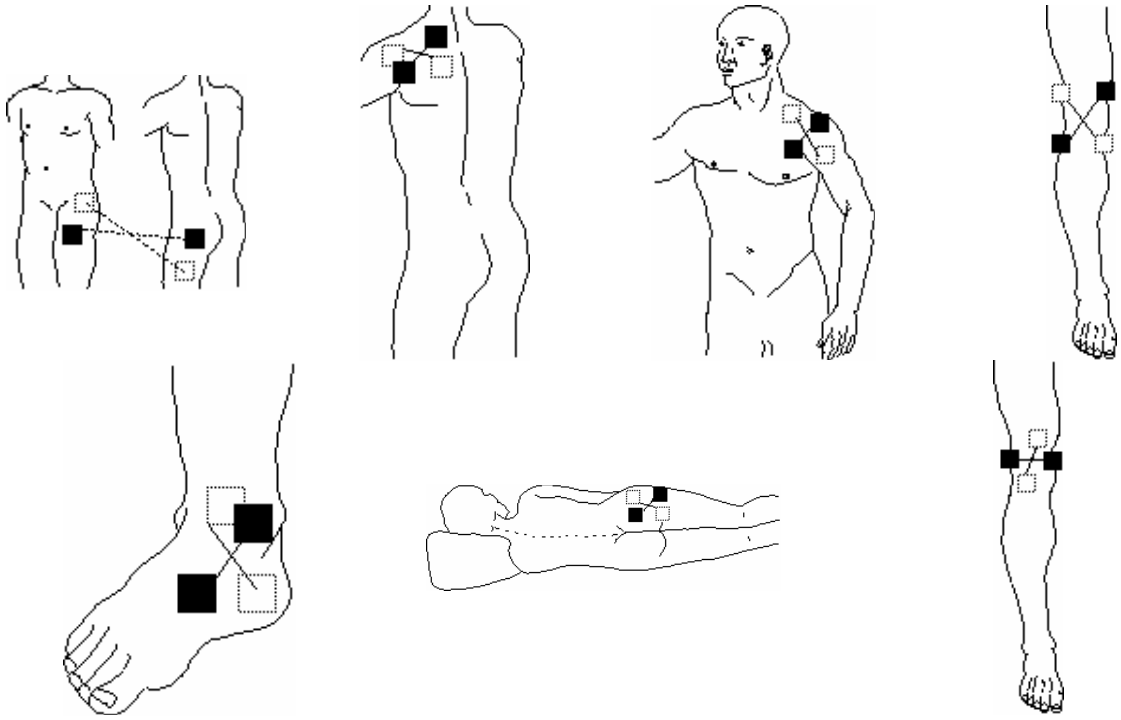






36 BURSITIS ACUTA

Program	E-5801 isoplanar interference 4 kHz
Therapy parameters	current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 20 Hz sweep: continuous rise: 10 s surge: 0 s fall: 10 s pause: 0 s sweep time: 10 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	6 - 10 min., step 1 min
Frequency of treatments	daily
Number of treatments	5
Intensity	at threshold sensitivity
Effect	analgesic
Note	It is also possible to use plate electrodes. (31)



37 BURSITIS ACUTA 2

Program	E-4825 TENS 70 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 70 us pulse freq.: 100 Hz modulation: constant frequency contact check: no
Position of electrodes	active cathode (up to 10 cm2) above the origin of the relevant spinal root, indifferent anode 100 cm2 paravertebral (above the contralateral root of the identical segment)
Length of application	5 - 20 min., step 1 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic
Note	Paravertebral (segmental) application. (32)

38 CELLULITIS - STRATUM PROFUNDUM

Program	E-0854 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 60 Hz spectrum: 40 Hz sweep: continuous rise: 1 s surge: 5 s fall: 1 s pause: 5 s contact check: yes
Position of electrodes	suction cup electrodes, spatial intersection of circuits so that the treated area is in the point of intersection of circuits
Length of application	15 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	at threshold motor level for AMF
Effect	trophic, myostimulation (36)

39 CELLULITIS - STRATUM SUPERFICIALE

Program	E-1907 diadynamic current DF + CP-ISO
Position of electrodes	plate electrodes 6x8 cm transregional above the treated area
Length of application	DF 1 min. + CP-ISO 4 min + CP-ISO 4 min. (reversal with interruption)
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	above threshold sensitivity for DF, up to threshold motor level for CP-ISO
Effect	trophic
Note	Reversal of polarity after 5 minutes. Besides the trophic effect this current has also considerable analgesic effect which, however, is not relevant for this diagnosis. (34)

40 CHELOIDUM

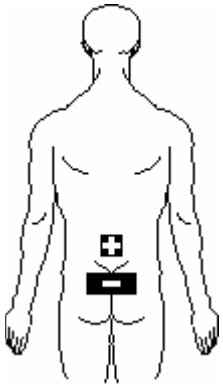
Program	E-0001 potassium iontophoresis
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional; anode (active - kalium solution) above the scar; cathode (indifferent - cathode protective solution) opposite the anode; the size of the active electrode corresponds to the treated scar
Length of application	20 - 30 min., step 2 min. (When applying dosed iontophoresis the length of application depends on the current dosage. For 2.92 mg K+ the current dosage is approximately 300 mA/min.)
Frequency of treatments	3x per week (every other day)
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	anode solution: = kalii chlorati (anhydrici) - 6.0 g = kalii hydroxydati in substantia - 1.2 g = aquae destillatae - ad 1000 ml cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (105)

41 CHELOIDUM 2

Program	E-0001 iodide iontophoresis
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional; cathode (active - iodid solution) at the scar; anode (indifferent - anode protective solution) opposite the cathode; the size of the active electrode corresponds to the treated scar
Length of application	20 - 30 min., step 2 min. (When applying dosed iontophoresis the length of application depends on the current dosage. For 8.5 mg I- the current dosage is approximately 300 mA/min.).
Frequency of treatments	3x per week (every other day)
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	cathode solution: = kalii iodati - 14.0 g = acidi hydrochlorici diluti - 5.6 g = aquae destillatae - ad 1000 ml anode solution: = natrii chlorati - 5.0 g = natrii hydroxydati in substantia - 1.0 g = aquae destillatae - ad 1000 ml (106)

42 CLAUDICATIO INTERMITENS

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 4.: cranial anode 8x12 cm (50 - 100 cm2) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	15 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	10
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic, trophic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (38)



43 CLAUDICATIO INTERMITENS 2

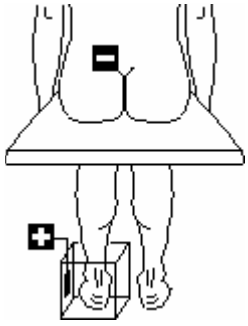
Program	E-0137 diadynamic current CP
Therapy parameters	current: diadynamics type: CP cc/cv mode: cc polarity: positive base: 20 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes 100 cm2, anode (anode protective solution) paravertebral (homolaterally towards the treated lower extremity) in the L2-S1 area, cathode (cathode protective solution) above the dorsal area of calf or at the foot sole
Length of application	20 - 30 min., step 1 min.
Frequency of treatments	daily, at left and right leg in turns (if both are affected)
Number of treatments	22 (11 each leg)
Intensity	above threshold sensitivity
Effect	analgesic, trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (39)

44 CLAUDICATIO INTERMITENS 3

Program	E-0110 diadynamic current DF
Therapy parameters	current: diadynamics type: DF cc/cv mode: cc polarity: positive revers. with interrupt. base: 0.5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes 6x8 cm, paravertebral in the L2-S1 area homolaterally to the treated extremity
Length of application	12 min., reversal with interruption in the middle of treatment
Frequency of treatments	daily
Number of treatments	9
Intensity	above threshold sensitivity
Effect	trophic (40)

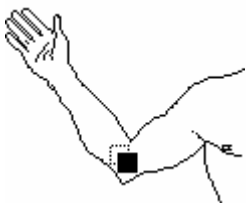
45 CLAUDICATIO INTERMITENS 4

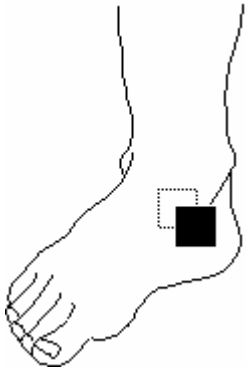
Program	E-0112 diadynamic current DF
Therapy parameters	current: diadynamics type: DF cc/cv mode: cc polarity: positive base: 0.5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate cathode 8x12 cm paravertebral in the L3-S1 area, anode in the form of isothermal water bath on the affected lower extremity
Length of application	max. 6 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. If using cathode protective solution it is possible to extend the time of application to 10 - 12 min. Composition of the protective solution: cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (41)

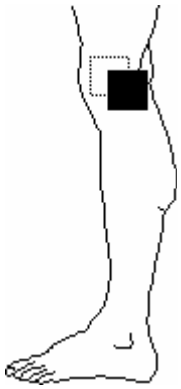


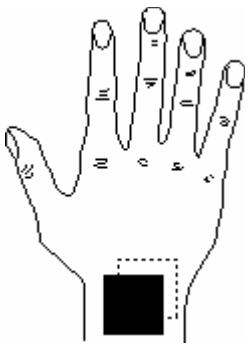
46 DISTORTIO, CONTUSIO - CONSOLIDATIO

Program	E-0001 transversal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional (anode above the painful area), size of electrodes corresponding to the treated region
Length of application	30 - 45 min., step 5 min.
Frequency of treatments	2x per day
Number of treatments	4 - 6
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	analgesic, trophic, antiedematous
Note	Use protective solutions. Apply within the first 48 hours after the accident. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (51)



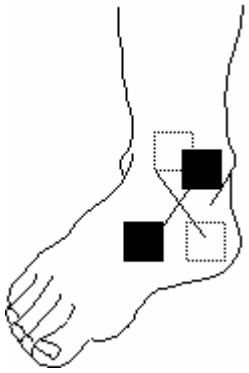


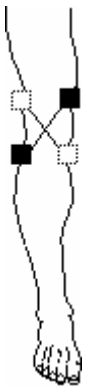




47 DISTORTIO, CONTUSIO - CONSOLIDATIO 2

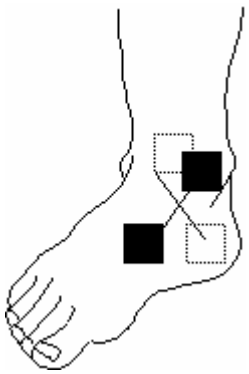
Program	E-2247 dipole vector field 4 kHz
Therapy parameters	current: special interference type: dipole manual cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 80 Hz spectrum: 40 Hz sweep: continuous rise: 1 s surge: 2 s fall: 1 s pause: 2 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic
Note	It is also possible to use plate electrodes - observe the principle of circuit intersection. In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain). Then it is switched over to the therapeutic mode and the above-threshold-sensitive intensity is set as maximum. (52)





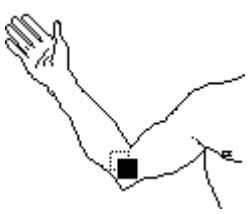
48 DISTORTIO, CONTUSIO - CONSOLIDATIO 3

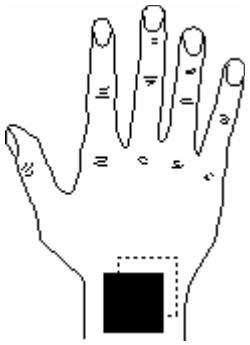
Program	E-2231 dipole vector field 4 kHz
Therapy parameters	current: special interference type: dipole manual cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 50 Hz spectrum: 50 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	6 - 10 min., step 1 min.
Frequency of treatments	daily
Number of treatments	5
Intensity	at threshold motor level for AMF
Effect	antiedematous, trophic, myostimulation
Note	It is also possible to use plate electrodes - observe the principle of circuit intersection. In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain). Then it is switched over to the therapeutic mode and the above-threshold-sensitive intensity is set as maximum. (53)

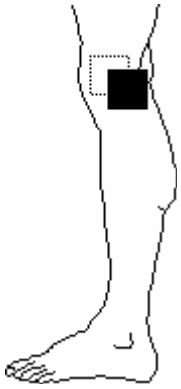


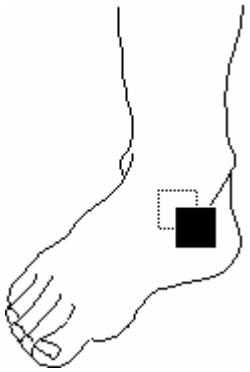
49 DISTORTIO, CONTUSIO - PERACUTA

Program	E-0001 transversal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional (anode above the painful area), size of electrodes corresponding to the treated region
Length of application	30 - 45 min., step 5 min.
Frequency of treatments	2x per day
Number of treatments	4 - 6
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	antiedematous, trophic, analgesic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (43)



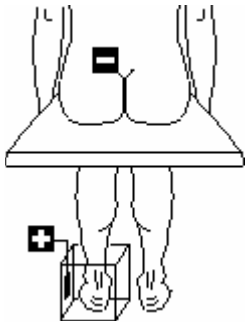






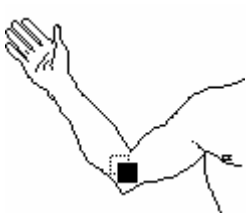
50 DISTORTIO, CONTUSIO - PERACUTA 2

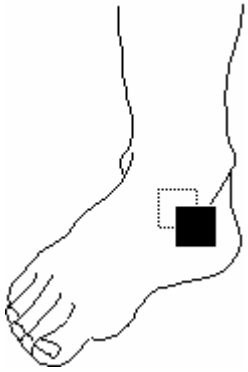
Program	E-0001 transversal galvanization - bath
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 8x12 cm paravertebral in the L3-S1 area, cathode in the form of isothermal water bath on the affected lower extremity
Length of application	30 - 45 min., step 5 min.
Frequency of treatments	2x per day
Number of treatments	4 - 6
Intensity	max. at threshold sensitivity, max. 20 mA
Current density	max. 0.1 mA/cm2
Effect	antiedematous, trophic, analgesic
Note	The treated joint is immersed in partial cold bath. The electrode is fixed to the side of the tub. Use anode protective solution under the anode. Composition of the protective solution: anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml (44)

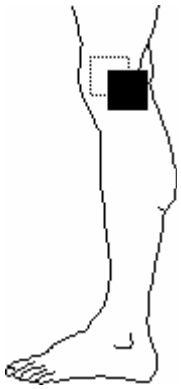


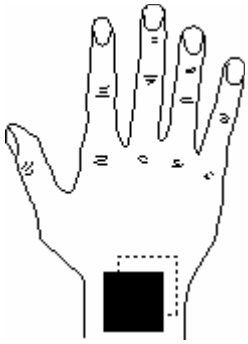
51 DISTORTIO, CONTUSIO - SUBACUTA

Program	E-0165 diadynamic current CP-ISO
Therapy parameters	current: diadynamics type: CP-ISO cc/cv mode: cc polarity: positive base: 5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional, cathode above the painful area
Length of application	3 - 6 min, step 1 min.
Frequency of treatments	daily
Number of treatments	4
Intensity	from below threshold motor level to threshold motor level (according to the patient's endurance)
Effect	antiedematous, trophic, myostimulation (46)



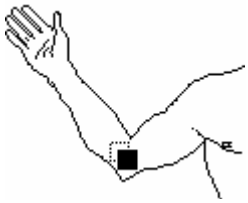


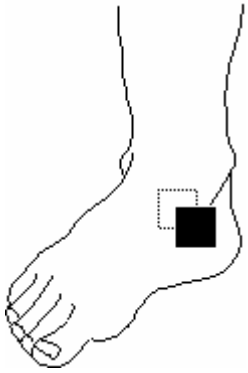


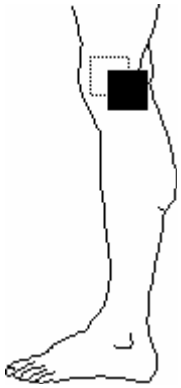


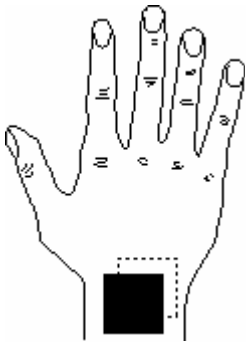
52 DISTORTIO, CONTUSIO - SUBACUTA 2

Program	E-0136 diadynamic current CP
Therapy parameters	current: diadynamics type: CP cc/cv mode: cc polarity: positive base: 10 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional, cathode above the painful area
Length of application	3 - 6 min., step 1 min.
Frequency of treatments	daily
Number of treatments	4
Intensity	from threshold motor level to above it
Effect	antiedematous, trophic, myostimulation (47)



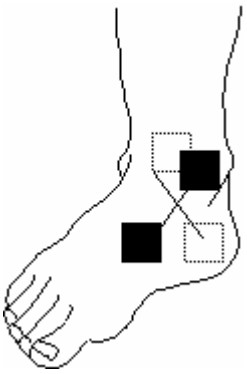






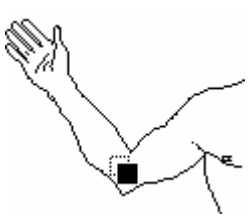
53 DISTORTIO, CONTUSIO - SUBACUTA 3

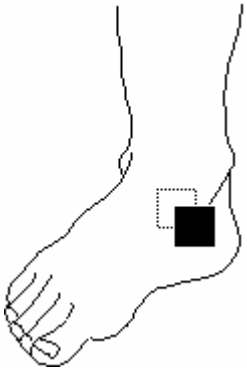
Program	E-2013 isoplanar interference 4 kHz
Therapy parameters	current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 30 Hz spectrum: 30 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s sweep time: 2 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	3 - 6 min., step 1 min.
Frequency of treatments	daily
Number of treatments	4
Intensity	up to threshold motor level
Effect	antiedematous, myostimulation, trophic
Note	It is also possible to use plate electrodes. (48)

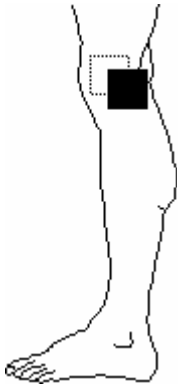


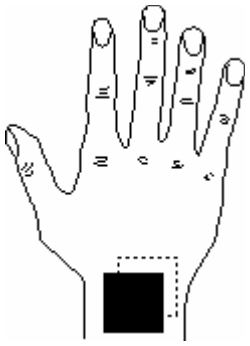
54 DISTORTIO, CONTUSIO - SUBACUTA 4

Program	E-2713 2-pole interference 10 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 30 Hz spectrum: 30 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint transregional in the current path
Length of application	3 - 6 min., step 1 min.
Frequency of treatments	daily
Number of treatments	4
Intensity	up to threshold motor level
Effect	antiedematous, myostimulation, trophic
Note	It is also possible to use plate electrodes. (49)



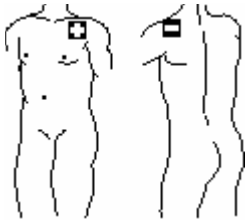






55 DOLOR POSTOPERATIVA

Program	E-5738 TENS 300 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	neural application by active tip cathode above the sensitive nerve which innervates the treated joint, indifferent plate anode 100 cm2 transregional to the cathode
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold of pain (up to the highest endurable level)
Effect	analgesic
Note	CV mode. (55)

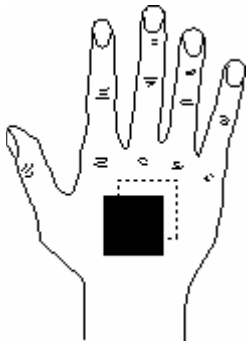


56 DOLOR POSTOPERATIVA 2

Program	E-1525 TENS 50 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 50 us pulse freq.: 100 Hz modulation: constant frequency contact check: no
Position of electrodes	plate electrodes 4x6 cm so that the postoperative scar is in the current path
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic (56)

57 DUPUYTREN'S CONTRACTURE

Program	E-0001 hyaluronidase iontophoresis
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional - anode (active - hyaluronidase solution) at the palmar side of hand, cathode (indifferent - cathode protective solution) at the volar side of hand, size of electrodes 4x6 cm
Length of application	30 min.
Frequency of treatments	2 - 3x per week
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	anode solution (components of hyaluronidase solution): solution 1 (acetate puffer): = natrii acetici - 11.5 g = acidi acetici gracialis - 0.95 g = aquae destillatae - ad 1000 ml solution 2 (hyaluronidase): = dissolve 1 vial of hyaluronidase in 1 vial of redistilled water (58)



58 DYSMENORRHOEA

Program	E-4815 TENS 70 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 70 us pulse freq.: 100 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes 24 cm2 symmetrically right and left above the symphysis, for the two-channel application also paravertebral at the lower lumbar area
Length of application	20 min
Frequency of treatments	daily
Number of treatments	6 - 9
Intensity	above threshold sensitivity
Effect	analgesic (60)

59 EDEMA REDUCTION

Program	E-3559 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 0.1 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic
	(587)

60 EPICONDYLITIS (BILATERALIS)

Program	E-0845 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 60 Hz sweep: continuous rise: 3 s surge: 3 s fall: 3 s pause: 3 s contact check: yes
Position of electrodes	suction cup electrodes, spatial intersection of circuits so that both epicondyles are in the area of 100% current modulation
Length of application	10 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic (62)

61 EPICONDYLITIS RADIALIS (ULNARIS)

Program	E-0945 2-pole interference 4 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 50 Hz sweep: continuous rise: 1 s surge: 3 s fall: 1 s pause: 3 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm so that the treated muscle is in the current path
Length of application	10 min.
Frequency of treatments	every other day
Number of treatments	5
Intensity	up to threshold motor level for 90 Hz
Effect	analgesic, myostimulation, myorelaxation
Note	It is also possible to use plate electrodes. (64)

62 EPICONDYLITIS RADIALIS (ULNARIS) 2

Program	E-7619 high voltage therapy
Therapy parameters	current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 200 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes up to 4x6 cm above the extensors (flexors) of wrist and hand
Length of application	5 min., step 1 min.
Frequency of treatments	daily
Number of treatments	5
Intensity	above threshold sensitivity (for 260 Hz) to threshold motor level (for 140 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation, analgesic
Note	CV mode. (65)

63 HAEMARTHROSIS

Program	E-0915 2-pole interference 4 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 50 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	transregional, plate electrodes, size corresponding to the treated joint (so that the treated joint is in the current path)
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	5
Intensity	at threshold motor level for 90 Hz, above threshold sensitivity for 140 Hz
Effect	analgesic, antiedematous, myostimulation (67)

64 HAEMARTHROSIS 2

Program	E-0815 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 60 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes, size corresponding to the treated joint (so that the treated joint is in the circuit intersection point)
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	5
Intensity	at threshold motor level for 90 Hz, above threshold sensitivity for 150 Hz
Effect	analgesic, antiedematous, myostimulation
Note	It is also possible to use plate electrodes. (68)

65 HAEMATOMA - PERACUTE

Program	E-0001 transversal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional - anode above the haematoma, size of electrodes corresponding to the size of the haematoma
Length of application	20 min.
Number of treatments	1
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	Use anode and cathode protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (70)

66 HAEMATOMA - PERACUTE 2

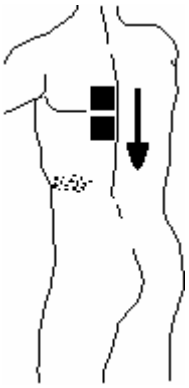
Program	E-0390 rectangular pulses 1 ms, trapezoid surges
Therapy parameters	current: rectangular pulses type: symmetric cc/cv mode: cc polarity: positive pulse: 1 ms pulse freq.: 50 Hz modulation: trapezoid surges rise: 1 s surge: 2 s fall: 1 s pause: 6 s contact check: yes
Position of electrodes	plate electrodes above and below the haematoma in longitudinal orientation towards the superficial muscle fibres under the haematoma
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	at threshold motor level
Effect	antiedematous, analgesic, myostimulation (71)

67 HAEMATOMA - PERACUTE 3

Program	E-2714 2-pole interference 10 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 60 Hz spectrum: 40 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	plate electrodes above and below the haematoma in longitudinal orientation towards the superficial muscle fibres under the haematoma
Length of application	5 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	at threshold motor level for 50 Hz, above threshold sensitivity for 90 Hz
Effect	antiedematous, myostimulation, then myorelaxation (72)

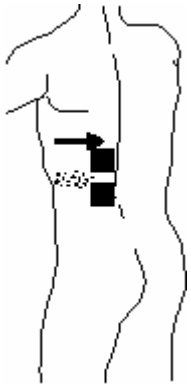
68 HERPES ZOSTER - NEURALGIA

Program	E-1906 diadynamic current DF + LP
Position of electrodes	cathode radicular; clip electrode (d=16 mm) anode proximal; gradually in craniocaudal direction treat the segment above, in and below the point of eruption
Length of application	DF 1 min. + LP 3 min. (with interruption)
Frequency of treatments	daily
Number of treatments	5
Intensity	above threshold sensitivity (threshold motor level for the 50 Hz component of LP)
Effect	analgesic
Note	CV mode. (74)



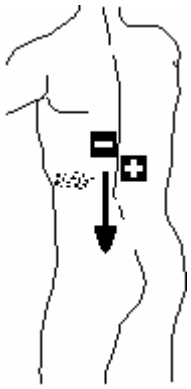
69 HERPES ZOSTER - NEURALGIA 2

Program	E-0138 diadynamic current CP
Therapy parameters	current: diadynamics type: CP cc/cv mode: cv polarity: positive base: 5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	clip electrode (d=16 mm); gradually treat the intercostal nerve correlating with the point of eruption, in ventral direction from the spine along the rib cage
Length of application	1 min. each location, within one session treat the whole intercostal nerve
Frequency of treatments	daily
Number of treatments	15
Intensity	above threshold sensitivity
Effect	analgesic, trophic
Note	CV mode. Pain must perceptibly subside within the first three applications, otherwise further application is useless. (75)



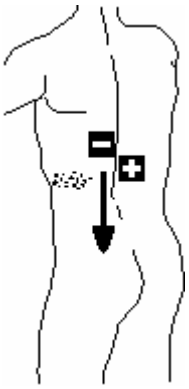
70 HERPES ZOSTER - NEURALGIA 3

Program	E-1535 TENS 50 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 50 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	neural application, active electrode - cathode 1cm2 above the origin of intercostal nerve at the spine, indifferent - anode 100 cm2 paravertebral above the origin of contralateral intercostal nerve, then treat also the segment above and below the point of eruption
Length of application	10 min. each location (30 min. total)
Frequency of treatments	daily
Number of treatments	10 (in case of positive effect up to 20)
Intensity	above threshold sensitivity
Effect	analgesic
Note	cv mode. Last procedures every other day, in case of positive effect it is suitable to start self-therapy by portable stimulator. (76)



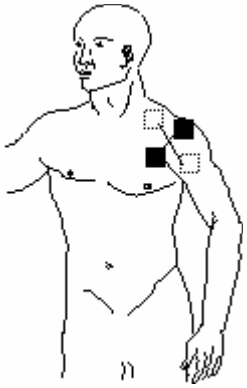
71 HERPES ZOSTER - NEURALGIA 4

Program	E-5739 TENS 300 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 1 Hz modulation: constant frequency contact check: no
Position of electrodes	neural application, active electrode - tip cathode (up to the size 3 mm2) above the origin of intercostal nerve at the spine, indifferent - anode 100 cm² paravertebral above the origin of contralateral intercostal nerve, then treat also the segment above and below the point of eruption
Length of application	5 min. each location (15 min. total)
Frequency of treatments	daily
Number of treatments	10 (in case of positive effect up to 20)
Intensity	from below threshold of pain to threshold of pain (the patient has a feeling of pricking by a needle)
Effect	analgesic
Note	CV mode. Last 3 treatments every other day. (77)



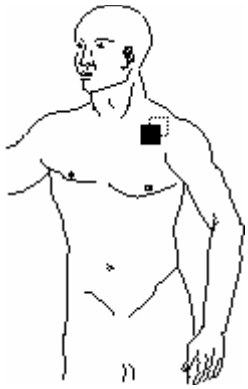
72 HUMEROSCAPULAR PERIARTHRITIS

Program	E-2257 dipole vector field 4 kHz
Therapy parameters	current: special interference type: dipole manual cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 70 Hz spectrum: 60 Hz sweep: continuous rise: 2 s surge: 4 s fall: 2 s pause: 4 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	5 - 15 min., step 2 min (in case of good tolerance)
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic
Note	It is also possible to use plate electrodes - observe the principle of circuit intersection. In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain). Then the parameters are switched over to the therapeutic mode and the intensity above threshold sensitivity is set as maximum. (143)



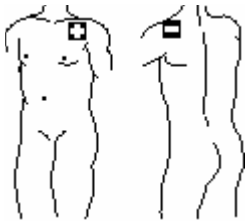
73 HUMEROSCAPULAR PERIARTHRITIS 2

Program	E-4515 TENS 30 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 30 us pulse freq.: 100 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes of the size suitable for the treated joint, transregional
Length of application	15 - 20 min., step 1 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic (144)



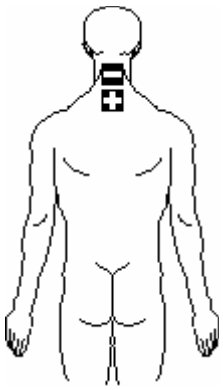
74 HUMEROSCAPULAR PERIARTHRITIS 3

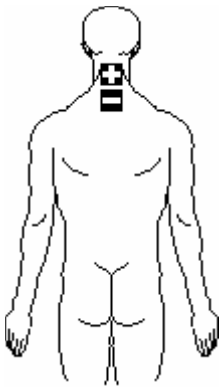
Program	E-5738 TENS 300 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	neural application by active tip cathode above the sensitive nerve innervating the treated joint, indifferent plate anode 100 cm2 transregional to the cathode
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold of pain (up to the highest endurable level)
Effect	analgesic
Note	CV mode. (145)

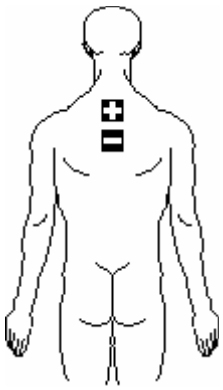


75 HUMEROSCAPULAR PERIARTHRITIS 4

Program	E-0005 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive. reversal pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	plate electrodes 100 cm2 in segmental localization to the treated joint (EL 1. - EL 2.)
Length of application	15 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic (146)







76 HYPERPIGMENTATION - DECOLLETTE

Program	E-3554 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (568)

77 HYPERPIGMENTATION - LEFT CHEEK

Program	E-3553 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 0 Hz usnd. PIP: 1:1 usnd. application type: semistatic (581)

78 HYPERPIGMENTATION - LEFT HAND

Program	E-3556 comb. therapy usnd 3MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 3 MHz usnd. intensity: 0.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (583)

79 HYPERPIGMENTATION - RIGHT CHEEK

Program	E-3552 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 0 Hz usnd. PIP: 1:1 usnd. application type: semistatic (566)

80 HYPERPIGMENTATION - RIGHT HAND

Program	E-3555 comb. therapy usnd 3MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 3 MHz usnd. intensity: 0.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (570)

81 HYPERTONIA MUSCULORUM

Program	E-7454 high voltage therapy - double pulse
Therapy parameters	current: HVT type: double cc/cv mode: cv polarity: positive frequency: 150 Hz modulation: sine surges surge length: 3 s sine surge pause: 6 s contact check: no
Position of electrodes	plate electrodes 4x6 cm above the treated hypertonic muscle
Length of application	5 min.
Frequency of treatments	first 2 daily, then every other day
Number of treatments	5
Intensity	below threshold motor level to threshold motor at the beginning of therapy (muscle fasciculation)
Effect	myorelaxation
Note	CV mode. (91)

82 HYPERTONIA MUSCULORUM 2

Program	E-7629 high voltage therapy - symmetric pulse
Therapy parameters	current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 180 Hz modulation: constant frequency contact check: no
Position of electrodes	plate electrodes of the size corresponding to the treated fibres group (no more than 10 cm2) above the treated muscle
Length of application	5 - 7 min.
Frequency of treatments	every other day
Number of treatments	4
Intensity	threshold motor level at the beginning of therapy, do not increase
Effect	myorelaxation
Note	CV mode. (92)

83 HYPOTONIA MUSCULORUM "PHASICUM"

Program	E-0016 interrupted rectangular pulses 1 ms
Therapy parameters	current: interrupted pulses type: rectangular monophasic cc/cv mode: cc polarity: positive pulse: 1 ms pulse freq.: 50 Hz modulation: trapezoid surges rise: 2 s surge: 5 s fall: 1 s pause: 18 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (83)

84 HYPOTONIA MUSCULORUM "PHASICUM" 2

Program	E-3070 h-waves (exponential surges 5.6 ms)
Therapy parameters	current: H-waves type: symmetric cc/cv mode: cc polarity: negative pulse: 5.6 ms pulse freq.: 60 Hz modulation: sine surges surge length: 3 s sine surge pause: 6 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (84)

85 HYPOTONIA MUSCULORUM "PHASICUM" 3

Program	E-4980 TENS 150 µs
Therapy parameters	current: TENS type: symmetric cc/cv mode: cc polarity: positive pulse: 150 us pulse freq.: 50 Hz modulation: sine surges surge length: 5 s sine surge pause: 15 s contact check: no
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (85)

86 HYPOTONIA MUSCULORUM 'TONICUM'

Program	E-0290 rectangular pulses 1 ms
Therapy parameters	current: rectangular pulses type: monophasic cc/cv mode: cc polarity: positive pulse: 1 ms pulse freq.: 50 Hz modulation: trapezoid surges rise: 1 s surge: 3 s fall: 1 s pause: 7 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (87)

87 HYPOTONIA MUSCULORUM 'TONICUM' 2

Program	E-0964 2-pole interference 4 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 60 Hz spectrum: 60 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (88)

88 HYPOTONIA MUSCULORUM 'TONICUM' 3

Program	E-2812 russian stimulation
Therapy parameters	current: russian stimulation cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz pulse frequency: 50 Hz pulse/pause ratio: 1:1 rise: 1 s surge: 2 s fall: 1 s pause: 12 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (89)

89 HYPOTONIA MUSCULORUM POSTOPERATIVA

Program	E-2912 russian stimulation
Therapy parameters	current: russian stimulation cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz pulse frequency: 50 Hz pulse/pause ratio: 1:1 rise: 1 s surge: 2 s fall: 1 s pause: 12 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (79)

90 HYPOTONIA MUSCULORUM POSTOPERATIVA 2

Program	E-7664 high voltage therapy
Therapy parameters	current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 50 Hz modulation: trapezoid surges rise: 3 s surge: 3 s fall: 3 s pause: 10 s contact check: no
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation
Note	CV mode. (80)

91 HYPOTONIA MUSCULORUM POSTOPERATIVA 3

Program	E-2764 2-pole interference
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 60 Hz spectrum: 60 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation
	(81)

92 INCONTINENTIA MIXTA

Program	E-1909 TENS 300 µs
Position of electrodes	intravaginal electrode
Length of application	30 min. (15 min. current a. + 15 min. current b., with interruption)
Frequency of treatments	daily (every other day)
Number of treatments	30 (repeating frequency of the series: 2 - 3 months)
Intensity	up to threshold motor level, according to the patient's endurance
Effect	myostimulation
Note	If this current is badly tolerated by the patient, set the maximum intensity that they tolerate.
	(102)

93 INCONTINENTIA MIXTA 2

Program	E-5736 TENS 300 µs, burst
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 300 us pulse freq.: 50 Hz modulation: burst Number of pulses in burst: 3 burst freq.: 10 Hz contact check: no
Position of electrodes	intravaginal electrode
Length of application	30 min.
Frequency of treatments	daily
Number of treatments	30 (series 6 - 8 weeks)
Intensity	up to threshold motor level, according to the patient's endurance
Effect	myostimulation
Note	If this current is badly tolerated by the patient, set the maximum intensity that they tolerate.
	(103)

94 INCONTINENTIA STRESS

Program	E-1908 TENS 300 µs
Position of electrodes	intravaginal electrode
Length of application	30 min. (rhythmical rotation of both programs)
Frequency of treatments	daily
Number of treatments	30 (repeating frequency of the series: 2 - 3 months)
Intensity	up to threshold motor level, according to the patient's endurance
Effect	myostimulation
Note	If this current is badly tolerated by the patient, set the maximum intensity that they tolerate. (98)

95 INCONTINENTIA URGENTIS

Program	E-5781 TENS 300 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 300 us pulse freq.: 10 Hz modulation: trapezoid surges rise: 3 s surge: 10 s fall: 2 s pause: 15 s contact check: no
Position of electrodes	intravaginal electrode
Length of application	30 min.
Frequency of treatments	daily
Number of treatments	14 (repeating frequency of the series: 3 months)
Intensity	up to threshold motor level, according to the patient's endurance
Effect	myostimulation
Note	In case of urgent incontinence even short-term electrostimulation can bring positive effect. If this current is badly tolerated by the patient, set the maximum intensity that they tolerate. (100)

96 INCONTINENTIA URINAE

Program	E-5804 4-pole interference 3.6 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 3600 Hz AMF: 50 Hz spectrum: 50 Hz sweep: continuous rise: 2 s surge: 6 s fall: 2 s pause: 3 s contact check: yes
Position of electrodes	suction cup electrodes so that the current circuits spatially intersect in the pelvic area (at the ventral side of the trunk laterally, symmetrically right and left 2 cm of the symphysis; at the dorsal side of the trunk medially to both ischial tubers - at the sides of the anus)
Length of application	15 min.
Frequency of treatments	2x per day
Number of treatments	10 - 20
Intensity	at threshold motor level for 50 Hz, according to the patient's endurance
Effect	myostimulation
Note	The carrier frequency can be adjusted to 4 kHz or higher. If the current is badly tolerated by the patient, set the maximum intensity that they tolerate. (94)

97 INCONTINENTIA URINAE 2

Program	E-5807 2-pole interference 3.6 kHz
Therapy parameters	current: spastic stimulations cc/cv mode: cc polarity 1: positive polarity 2: positive T1: 0.5 ms delay: 250 ms T2: 0.5 ms pulse frequency: 1 Hz contact check: no
Position of electrodes	plate electrodes 6x8 cm above the anus, 4x6 cm above the symphysis
Length of application	5 min.
Frequency of treatments	2x per day
Number of treatments	10 - 20
Intensity	at threshold motor level for 35 Hz, according to the patient's endurance
Effect	myostimulation
Note	The carrier frequency can be adjusted to 4 kHz or higher. If the current is badly tolerated by the patient, set the maximum intensity that they tolerate. (95)

98 INCONTINENTIA URINAE 3

Program	E-5812 TENS 250 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 250 us pulse freq.: 50 Hz modulation: sine surges surge length: 3 s sine surge pause: 9 s contact check: no
Position of electrodes	vaginal or anal electrode
Length of application	5 min.
Frequency of treatments	2x per day
Number of treatments	10 - 20
Intensity	at threshold motor level, according to the patient's endurance
Effect	myostimulation
Note	If the current is badly tolerated by the patient, set the maximum intensity that they tolerate. (96)

99 IODINE IONTOPHORESIS (FOR KELOID SCAR)

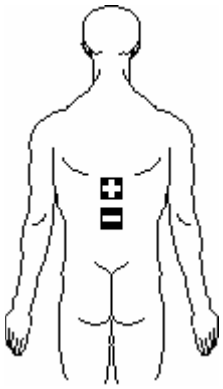
Program	E-0001 galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes (591)

100 LUMBALGIA (LOW BACK PAIN)

Program	E-5806 isoplanar interference 4 kHz
Therapy parameters	current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 10 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s sweep time: 12 s contact check: yes
Position of electrodes	suction electrodes, spatial intersection of circuits, the source of nociception (affected area) is in the current path (from the side to the trunk)
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	above threshold sensitivity (during the whole application)
Effect	analgesic
Note	Indication in acute stadia, to achieve the analgesic effect. (108)

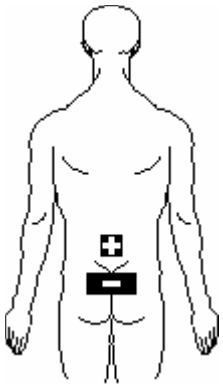
101 LUMBALGIA (LOW BACK PAIN) 2

Program	E-0002 träbert current - EL 3
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 3.: cranial anode 8x12 cm (50 - 100 cm2) at the lower pectoral spine (Th9-Th12), caudal cathode 8x12 cm at the upper lumbar spine (L1-L3)
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (109)



102 LUMBALGIA (LOW BACK PAIN) 3

Program	E-0002 träbert current - EL 4
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 4.: cranial anode 8x12 cm (50 - 100 cm2) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (529)



103 LUMBALGIA (LOW BACK PAIN) 4

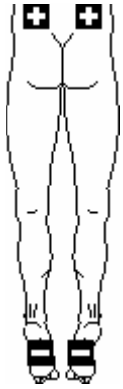
Program	E-1617 TENS 100 µs
Therapy parameters	current: TENS type: symmetric cc/cv mode: cc polarity: positive pulse: 100 us pulse freq.: 200 Hz modulation: random frequency contact check: no
Position of electrodes	electrodes 4x6 cm paravertebral in the lumbar spine area
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity (for 260 Hz) to threshold motor level (for 140 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation, analgesic (110)

104 LYMPHOEDEMA

Program	E-6044 rectangular pulses 2 ms
Therapy parameters	current: rectangular pulses type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 50 Hz modulation: sine surges surge length: 3 s sine surge pause: 6 s contact check: yes
Position of electrodes	clip electrodes 16 mm above the lymphatic vessels on the affected extremity, 5 - 10 cm apart from each other, after 1 minute move the electrodes in the distal direction
Length of application	1 min. each location
Frequency of treatments	2 - 3x per day
Number of treatments	5 - 10 or more, according to the effect
Intensity	at threshold motor level (muscle fasciculation)
Effect	antiedematous
Note	Treat always in the proximodistal direction. Massive lymphoedemas shall be treated by segments, also in the proximodistal direction. (Example: thigh proximodistally, than the calf and the shank, in the end the leg proximodistally). Cathode is in distal direction from anode. It is also possible to use other types of currents, e.g. CP. (112)

105 M.BÜRGER, ACROCYANOSIS, NEURALGIA

Program	E-0001 longitudinal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	cathodes (6x8 cm) of individual channels apply on foot soles, both anodes (6x8 cm) side by side above the spine at the level of L3-S1 segments
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	Use protective solutions. Use both channels of the equipment. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (114)

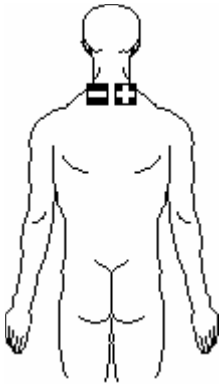


106 M.OSGOOD-SCHLATTER

Program	E-1910 diadynamic current DF + CP-ISO
Position of electrodes	plate electrodes 6x8 cm transregional above the treated area
Length of application	DF 1 min. + CP-ISO 5 min., with interruption
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	above threshold sensitivity for DF, up to threshold motor level for CP-ISO
Effect	trophic (116)

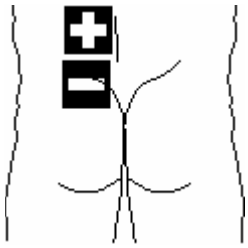
107 M.REYNAUD

Program	E-0001 paravertebral resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 4x6 cm at the affected side paravertebrally in the C5-Th1 area, cathode 4x6 cm counterlaterally paravertebrally towards anode
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (118)



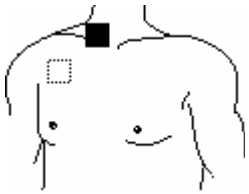
108 M.REYNAUD 2

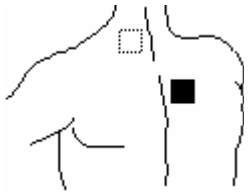
Program	E-0001 segmental resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode above and cathode below the outflow of segments which innervate the affected extremity
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (530)



109 M.REYNAUD 3

Program	E-2040 isoplanar interference 4 kHz
Therapy parameters	current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes; spatial intersection of circuits so that the treated area is in the current path circuit 1: one electrode homolateral above the medial end of the clavicle, the other homolateral, to the paravertebral fornix on the Th1 level circuit 2: one electrode homolateral below the lateral end of the clavicle, the other contralateral, to the paravertebral fornix on the C5 level
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	15
Intensity	above threshold sensitivity (owing to low accommodation of sympathetic fibres do not change intensity during application)
Effect	trophic
Note	Affection of the sympathetic tonus. (119)





110 MUSCULUS ABBREVIATUS

Program	E-6254 rectangular pulses 2 ms
Therapy parameters	current: rectangular pulses type: alternating cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 50 Hz modulation: sine surges surge length: 3 s sine surge pause: 6 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	4 - 8 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	5
Intensity	above threshold motor level
Effect	myostimulation and then myorelaxation, trophic
Note	During application slight manual resistance shall be put up to the stimulated muscle. (121)

111 MUSCULUS SCISSUS

Program	E-0944 2-pole interference 4 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 60 Hz spectrum: 40 Hz sweep: continuous rise: 3 s surge: 3 s fall: 3 s pause: 3 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm so that the affected muscle is in the current path
Length of application	4 - 8 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	5
Intensity	below threshold motor level
Effect	trophic
Note	It is also possible to use plate electrodes. (123)

112 MYALGIA

Program	E-0853 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 50 Hz spectrum: 70 Hz sweep: continuous rise: 2 s surge: 6 s fall: 2 s pause: 2 s contact check: yes
Position of electrodes	suction cup electrodes; spatial intersection of circuits so that the affected muscle is in the current path
Length of application	8 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	at threshold motor level
Effect	myostimulation, trophic, analgesic
Note	In the poststimulative stage there occurs myorelaxation which in connection with the trophic effect brings analgesic effect. (125)

113 MYALGIA 2

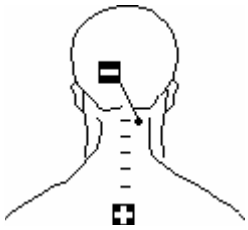
Program	E-1663 TENS 100 µs
Therapy parameters	current: TENS type: symmetric cc/cv mode: cc polarity: positive pulse: 100 us pulse freq.: 100 Hz modulation: trapezoid surges rise: 2 s surge: 3 s fall: 1 s pause: 7 s contact check: no
Position of electrodes	electrodes 4x6 cm above the affected muscle
Length of application	10 - 20 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	up to threshold motor level
Effect	analgesic (126)

114 NEURALGIA

Program	E-0001 longitudinal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 6x8 cm above the affected nerve (peripheral), cathode 8x12 cm above the relevant segment of the spine
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic, analgesic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (128)

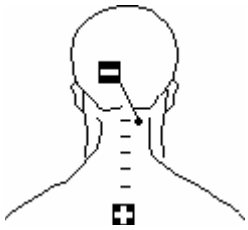
115 NEURALGIA N. OCCIPITALIS MAJOR

Program	E-4815 TENS 70 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 70 us pulse freq.: 100 Hz modulation: random frequency contact check: no
Position of electrodes	active tip cathode (up to the size 1 cm2) above the origin of the treated nerve in the suboccipital region, indifferent anode 100 cm2 at the C/Th boundary
Length of application	15 - 20 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic
Note	CV mode. (138)



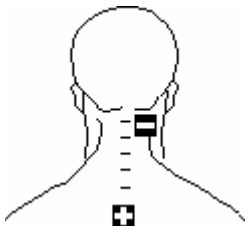
116 NEURALGIA N. OCCIPITALIS MAJOR 2

Program	E-5735 TENS 300 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 0.5 Hz contact check: no
Position of electrodes	active tip cathode (up to the size 3 mm2) above the origin of the treated nerve in the suboccipital region, indifferent anode 100 cm2 at the C/Th boundary
Length of application	5 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	from below threshold of pain to threshold of pain (the patient has a feeling of pricking by a needle)
Effect	analgesic
Note	CV mode. (139)



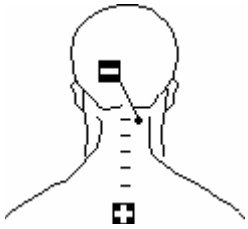
117 NEURALGIA N. OCCIPITALIS MAJOR 3

Program	E-7481 high voltage therapy - surges 2/1/1/3
Therapy parameters	current: HVT type: double cc/cv mode: cv polarity: positive frequency: 200 Hz modulation: trapezoid surges rise: 3 s surge: 3 s fall: 3 s pause: 7 s contact check: no
Position of electrodes	plate electrodes, cathode 4x6 cm above the points of reflex changes in the extensors of the neck, anode 100 cm2 above the C/Th boundary
Length of application	5 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	below threshold motor (the patient may feel fasciculation in the muscle fibres with reflex changes), do not increase during therapy
Effect	analgesic, myorelaxation
Note	CV mode. (140)



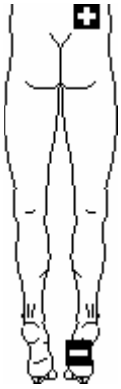
118 NEURALGIA N. OCCIPITALIS MAJOR 4

Program	E-7418 high voltage therapy - double pulse
Therapy parameters	current: HVT type: double cc/cv mode: cv polarity: positive frequency: 100 Hz modulation: random frequency contact check: no
Position of electrodes	active point cathode (up to the size 1 cm2) above the points of reflex changes in the extensors of the neck, indifferent anode 100 cm2
Length of application	2 min. above each reflex change
Frequency of treatments	daily
Number of treatments	3
Intensity	above threshold sensitivity (for 70 Hz) to threshold motor level (for 130 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	analgesic
Note	CV mode. (531)



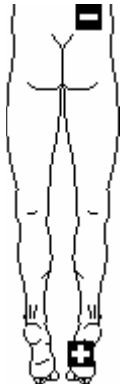
119 NEUROPATHIA (ACROHYPAESTHESIA)

Program	E-0001 longitudinal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	cathode 4x6 cm at the acrum of the affected extremity (palm or foot sole); anode 4x6 cm paravertebral at the affected side in the C5-Th1 area for upper extremities and L3-S1 area for lower extremities
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (130)



120 NEUROPATHIA (ACROPARAESTHESIA, ACRODYSAESTHESIA)

Program	E-0001 resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 4x6 cm at the acrum of the affected extremity (palm or foot sole); cathode 4x6 cm paravertebral at the affected side in the C5-Th1 area for upper extremities and L3-S1 area for lower extremities (use of anelectrotone - reduction of excitability of the peripheral nerve under the anode)
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (132)



121 OBSTIPATIO ATONICA

Program	E-0861 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 1 Hz spectrum: 10 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes
Position of electrodes	suction cup electrodes, spatial intersection of circuits so that the abdominal region and the lumbar sympathetic plexi are in the point of circuit intersection
Length of application	15 min.
Frequency of treatments	every other day
Number of treatments	10
Intensity	from above threshold sensitivity to threshold motor level
Effect	trophic, sympathicotonic (134)

122 OBSTIPATIO SPASTICA

Program	E-0840 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes, spatial intersection of circuits so that the abdominal region and the lumbar sympathetic plexi are in the point of circuit intersection
Length of application	15 min.
Frequency of treatments	every other day
Number of treatments	10
Intensity	above threshold sensitivity
Effect	trophic, sympathicolytic (136)

123 OTHER SEQUENCES

Program	E-1900 diadynamic current DF + CP-ISO (194)

124 OTHER SEQUENCES 2

Program	E-1901 diadynamic current DF + CP-ISO (195)

125 OTHER SEQUENCES 3

Program	E-1902 diadynamic current DF + CP-ISO (196)

126 OTHER SEQUENCES 4

Program	E-1903 diadynamic current DF + CP-ISO (197)

127 OTHER SEQUENCES 5

Program	E-1904 diadynamic current DF + CP-ISO (198)

128 POST MICRODERMABRASION - CHEEKS

Program	E-3550 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 0 Hz usnd. PIP: 1:1 usnd. application type: semistatic (562)

129 POST MICRODERMABRASION - OTHER FACIAL AREAS

Program	E-3551 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (564)

130 POST OPERATIVE PAIN MANAGEMENT

Program	E-1515 TENS 50 µs
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 50 us pulse freq.: 100 Hz modulation: random frequency contact check: no (595)

131 POST SURG., POST FACE LIFT

Program	E-7800 NPHV pulses
Therapy parameters	current: NPHV type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no (542)

132 POST SURG., POST LIPOSUCTION ABDOMEN

Program	E-7800 NPHV pulses
Therapy parameters	current: NPHV type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no (548)

133 POST SURG., POST LIPOSUCTION THIGHS & BUTTOCKS

Program	E-7800 NPHV pulses
Therapy parameters	current: NPHV type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no (544)

134 POST SURG., POST LIPOSUCTION UPPER ARMS

Program	E-7800 NPHV pulses
Therapy parameters	current: NPHV type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no (546)

135 POST SURGICAL EDEMA REDUCTION

Program	E-0001 galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes (589)

136 POTASSIUM IONTOPHORESIS (FOR KELOID SCAR)

Program	E-0001 galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes (593)

137 PRURIGO, PRURITUS, URTICA

Program	E-0001 calcium iontophoresis
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional - anode (active - calcium solution) above the treated area, cathode (indifferent - cathode protective solution) opposite the anode, size of electrodes corresponds to the treated area
Length of application	20-30 min., step 2 min. (When applying dosed iontophoresis the length of application depends on the current dosage. For 1.49 mg Ca2+ the current dosage is approximately 300 mA/min.)
Frequency of treatments	first two daily, then every other day
Number of treatments	6
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm2
Effect	trophic
Note	anode solution: = calcii chlorati - 5.5 g = aquae calcis - ad 1000.0 ml cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000.0 ml (148)

138 SCAR REV., HYPERTROPHIC / KELOID

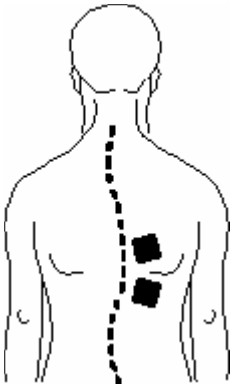
Program	E-3562 comb. therapy usnd 3MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 3 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (598)

139 SCAR REVISION - ATROPHIC ACNE SCAR

Program	E-3560 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 0 Hz usnd. PIP: 1:1 usnd. application type: semistatic (597)

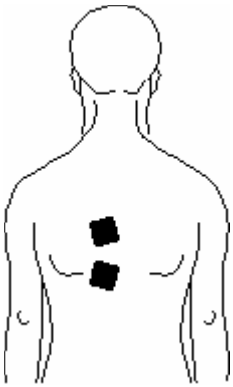
140 SCOLIOSIS

Program	E-5815 TENS 150 µs
Therapy parameters	current: TENS type: symmetric cc/cv mode: cc polarity: positive pulse: 150 us pulse freq.: 50 Hz modulation: trapezoid surges rise: 2 s surge: 3 s fall: 1 s pause: 7 s contact check: no
Position of electrodes	plate electrodes up to the size 4x6 cm at the paravertebral muscles in the convexity of the scoliotic curve
Length of application	6 - 25 min., step. 1 min.
Frequency of treatments	daily
Number of treatments	20 or even more
Intensity	above threshold motor level
Effect	myostimulation
Note	Indication: minor idiopathic scolioses at the time of growth acceleration. It is suitable to treat simultaneously the hypertonic muscles in the concavity of the scoliotic curve by myorelaxation procedure. (150)



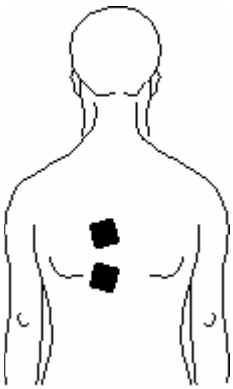
141 SCOLIOSIS 2

Program	E-7619 high voltage therapy
Therapy parameters	current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 200 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes up to the size 4x6 cm at the paravertebral muscles in the concavity of the scoliotic curve
Length of application	5 - 25 min., step. 1 min.
Frequency of treatments	daily
Number of treatments	20 or more
Intensity	above threshold sensitivity (for 260 Hz) to threshold motor level (for 140 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation
Note	CV mode. Indication: minor idiopathic scolioses at the time of growth acceleration. It is suitable to stimulate simultaneously the muscles in the convexity of the scoliotic curve. (151)



142 SCOLIOSIS 3

Program	E-2749 2-pole interference
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 150 Hz spectrum: 50 Hz sweep: continuous rise: 1 s surge: 6 s fall: 1 s pause: 6 s contact check: yes
Position of electrodes	plate electrodes up to the size 4x6 cm at the paravertebral muscles in the concavity of the scoliotic curve
Length of application	15 min., step. 1 min.
Frequency of treatments	daily
Number of treatments	20 or more
Intensity	above threshold sensitivity (for 200 Hz) to threshold motor level (for 150 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation
Note	Indication: minor idiopathic scolioses at the time of growth acceleration. It is suitable to stimulate simultaneously the muscles in the convexity of the scoliotic curve. (152)



143 SPASTICITIS

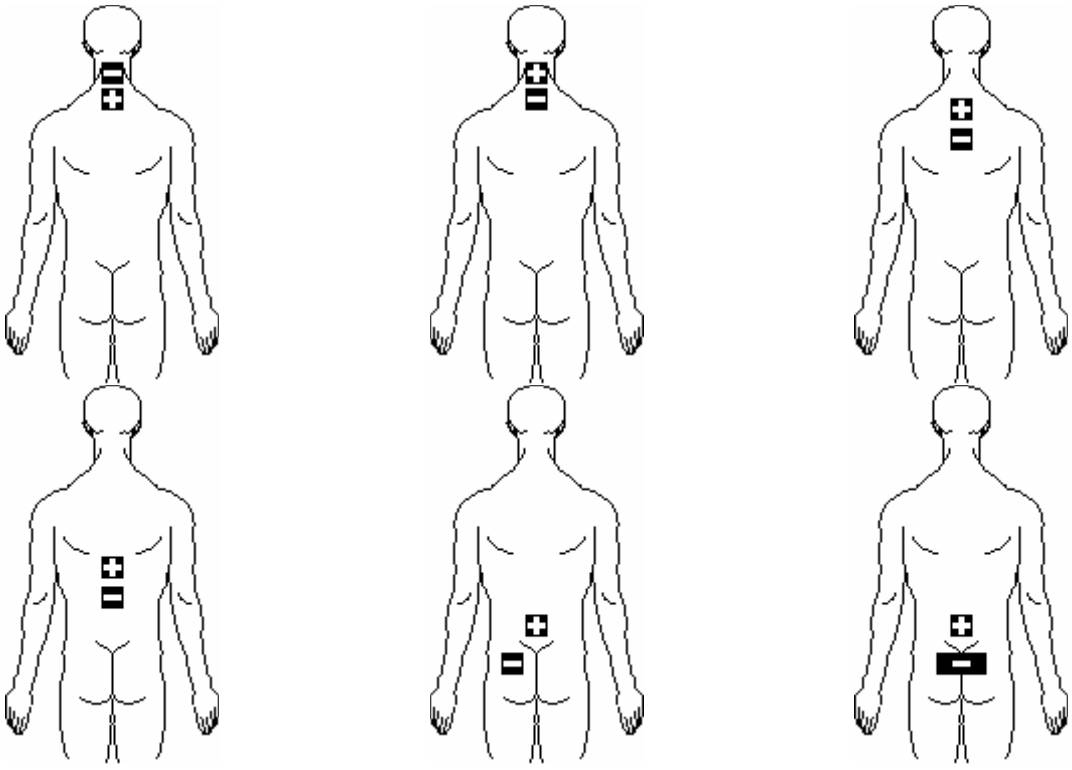
Program	E-5807 spastic stimulations
Therapy parameters	current: spastic stimulations cc/cv mode: cc polarity 1: positive polarity 2: positive T1: 0.5 ms delay: 250 ms T2: 0.5 ms pulse frequency: 1 Hz contact check: no
Position of electrodes	1. channel: bipolar above the spastic muscle (muscle group), size of electrodes corresponds to the stimulated muscle (muscle group), cathode (anode - according to individual changes of irritability) above the motor point of the muscle, anode proximal above the muscle belly 2. channel: bipolar above the belly of the antagonist(s) of the spastic muscle (muscle group)
Length of application	3 - 7 min.
Frequency of treatments	2 - 3x per day
Number of treatments	depends on the effect of therapy, 20 applications or even more
Intensity	above threshold motor level in both channels
Effect	myostimulation, trophic
Note	Size of electrodes according to the size of the treated muscles (muscle groups) It is also possible to use the method of monopolar direct stimulation: active electrode (cathode) of the size up to 2 cm2 is placed above the motor point of the muscle, indifferent anode (2-3x larger) is placed at least 3 cm in proximal direction from the cathode. (154)

144 SPECIAL TOPICAL DELIVERY

Program	E-3561 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (596)

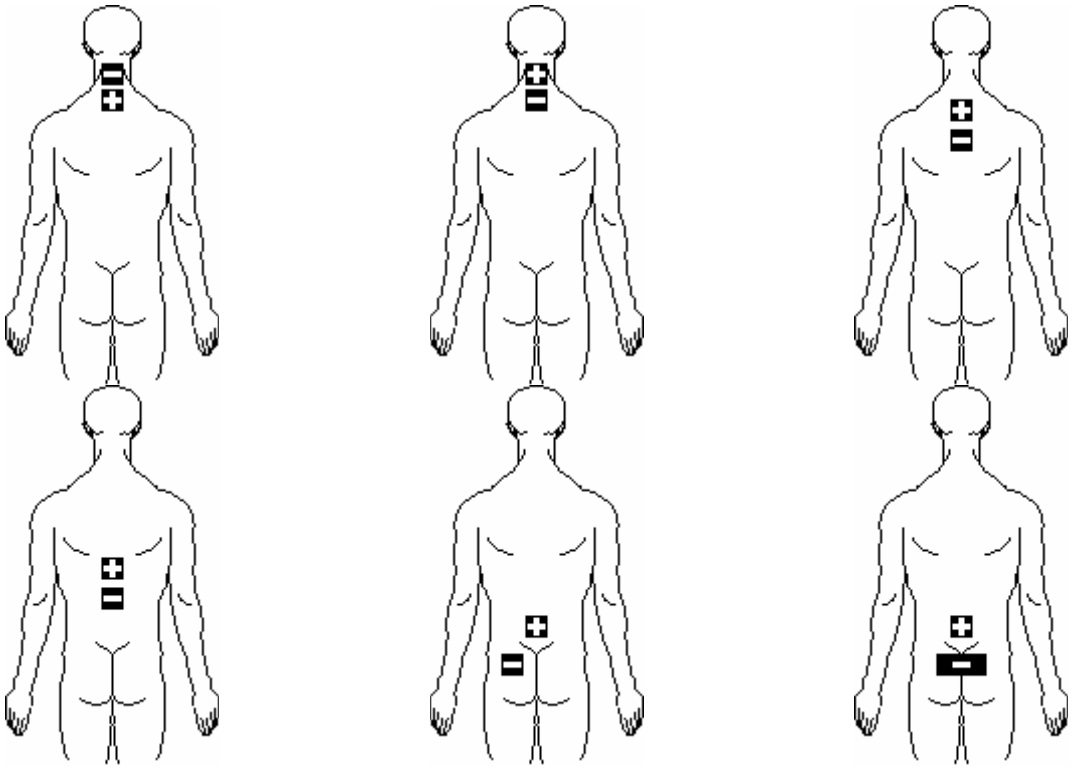
145 SPONDYLARTHRITIS ANCYLOPOETICA

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 1.: cranial anode 8x12 cm (50 - 100 cm2) at the occiput and the upper cervical spine, caudal cathode 8x12 cm at the lower cervical spine (C5-C7) and C/Th boundary; in case that pain radiates towards the shoulder - cathode cranial EL 2.: cranial anode 8x12 cm (50 - 100 cm2) at the lower cervical spine (C5-Th1), caudal cathode 8x12 cm at the upper pectoral spine (Th3-Th5) EL 3.: cranial anode 8x12 cm (50 - 100 cm2) at the lower pectoral spine (Th9-Th12), caudal cathode 8x12 cm at the upper lumbar spine (L1-L3) EL 4.: cranial anode 8x12 cm (50 - 100 cm2) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. EL4 a) - lumbago without propagation of pain EL4 b) - lumbago with unilateral radiation of pain to SI joint and lower extremity (156)



146 SPONDYLARTHRITIS ANCYLOPOETICA 2

Program	E-0012 pulsed träbert current
Therapy parameters	current: interrupted pulses type: rectangular monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz contact check: yes
Position of electrodes	EL 1.: cranial anode 8x12 cm (50 - 100 cm2) at the occiput and the upper cervical spine, caudal cathode 8x12 cm at the lower cervical spine (C5-C7) and C/Th boundary; in case that pain radiates towards the shoulder - cathode cranial EL 2.: cranial anode 8x12 cm (50 - 100 cm2) at the lower cervical spine (C5-Th1), caudal cathode 8x12 cm at the upper pectoral spine (Th3-Th5) EL 3.: cranial anode 8x12 cm (50 - 100 cm2) at the lower pectoral spine (Th9-Th12), caudal cathode 8x12 cm at the upper lumbar spine (L1-L3) EL 4.: cranial anode 8x12 cm (50 - 100 cm2) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	20 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. Thanks to interruption of intensity during the pulse it is possible to perform longer application without use of protective solutions. EL4 a) - lumbago without propagation of pain EL4 b) - lumbago with unilateral radiation of pain to SI joint and lower extremity (157)



147 TENDOVAGINITIS CHRONICA

Program	E-2744 2-pole interference 10 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 60 Hz spectrum: 40 Hz sweep: continuous rise: 3 s surge: 3 s fall: 3 s pause: 3 s contact check: yes
Position of electrodes	plate electrodes longitudinal above the treated tendon and its peritenon or above the muscle belly and tendon
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 2 daily, then every other day
Number of treatments	6
Intensity	at threshold sensitivity
Effect	analgesic, myorelaxation (174)

148 TENDOVAGINITIS SUBACUTA

Program	E-2746 2-pole interference 10 kHz
Therapy parameters	current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 100 Hz spectrum: 50 Hz sweep: continuous rise: 3 s surge: 3 s fall: 3 s pause: 3 s contact check: yes
Position of electrodes	plate electrodes longitudinal above the treated tendon and its peritenon or above the muscle belly and tendon
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 2 daily, then every other day
Number of treatments	6
Intensity	at threshold sensitivity
Effect	analgesic, myorelaxation (172)

149 TONISATIO MUSCULORUM "PHASICUM"

Program	E-0790 russian stimulation
Therapy parameters	current: russian stimulation cc/cv mode: cc polarity: positive carrier frequency: 2500 Hz pulse frequency: 100 Hz pulse/pause ratio: 1:1 rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	3 - 7 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	5
Intensity	above threshold motor level
Effect	myostimulation (178)

150 TONISATIO MUSCULORUM 'TONICUM'

Program	E-0712 russian stimulation
Therapy parameters	current: russian stimulation cc/cv mode: cc polarity: positive carrier frequency: 2500 Hz pulse frequency: 50 Hz pulse/pause ratio: 1:1 rise: 1 s surge: 2 s fall: 1 s pause: 12 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (176)

151 TRIGGER POINTS - DEEP

Program	E-3515 combined therapy - ultrasound + tens
Therapy parameters	current: TENS + usnd. type: asymmetric cc/cv mode: cv polarity: negative pulse: 100 us pulse freq.: 100 Hz modulation: constant frequency contact check: no usnd. frequency: 1 MHz usnd. intensity: 0.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic
Position of electrodes	active - ultrasound head = cathode, indifferent electrode - plate anode 100 cm² contralateral
Length of application	1 - 2 min. above each trigger point of pain
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	above threshold motor level at the trigger point of pain, above threshold sensitivity out of it
Effect	myorelaxation
Note	CV mode. Usnd. ERA: 1 cm² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-5814, U-1008. (186)

152 TRIGGER POINTS - DEEP 2

Program	E-3570 combined therapy - ultrasound + 2-pole interference
Therapy parameters	current: interference 2p. + usnd. type: 2-pole cc/cv mode: cv polarity: positive carrier frequency: 10000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes usnd. frequency: 1 MHz usnd. intensity: 0.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic
Position of electrodes	active - ultrasound head, indifferent - plate electrode 100 cm² contralateral
Length of application	1 - 2 min. above each trigger point of pain
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	above threshold motor level at the trigger point of pain, above threshold sensitivity out of it
Effect	myorelaxation
Note	CV mode. Usnd. ERA: 1 cm² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-2770, U-1008. (187)

153 TRIGGER POINTS - SUPERFICIAL

Program	E-7416 high voltage therapy - random
Therapy parameters	current: HVT type: double cc/cv mode: cv polarity: positive frequency: 50 Hz modulation: random frequency contact check: no
Position of electrodes	active ball electrode in the static mode above the trigger point of pain in the treated muscle, indifferent electrode 100 cm2 contralateral
Length of application	1 - 2 min. above each trigger point of pain
Frequency of treatments	daily
Number of treatments	1 - 4 (according to the effect)
Intensity	above threshold sensitivity (for 35 Hz) to threshold motor level (for 65 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation
Note	CV mode. (180)

154 TRIGGER POINTS - SUPERFICIAL 2

Program	E-7626 high voltage therapy
Therapy parameters	current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 50 Hz modulation: constant frequency contact check: no
Position of electrodes	active ball electrode in the static mode above the trigger point of pain in the treated muscle, indifferent electrode 100 cm2 contralateral
Length of application	5 - 7 min.
Frequency of treatments	every other day
Number of treatments	4
Intensity	above threshold motor level at the beginning of therapy; do not increase
Effect	myorelaxation
Note	CV mode. (181)

155 TRIGGER POINTS - SUPERFICIAL 3

Program	E-3514 combined therapy - ultrasound + tens
Therapy parameters	current: TENS + usnd. type: symmetric cc/cv mode: cv polarity: negative pulse: 100 us pulse freq.: 100 Hz modulation: constant frequency contact check: no usnd. frequency: 3 MHz usnd. intensity: 0.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic
Position of electrodes	active - ultrasound head = cathode, indifferent electrode - plate anode 100 cm² contralateral
Length of application	1 - 2 min. above each trigger point of pain
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	above threshold motor level at the trigger point of pain, above threshold sensitivity out of it
Effect	myorelaxation
Note	CV mode. Usnd. ERA: 1 cm² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-5813, U-1007. (182)

156 TRIGGER POINTS - SUPERFICIAL 4

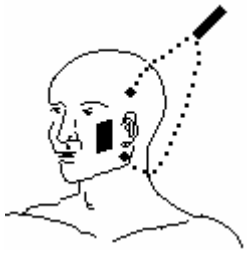
Program	E-1911 diadynamic current CP + LP
Position of electrodes	active small cathode (up to 10 cm2) above the trigger point of pain in the treated muscle, indifferent large anode (100 cm2) contralateral
Length of application	CP 3 min. + LP 3 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	4 - 8 (according to the effect)
Intensity	above threshold motor level for the 50 Hz component of CP current, above threshold sensitivity to threshold motor level for the 50 Hz component of LP current
Effect	myorelaxation, analgesic (183)

157 TRIGGER POINTS - SUPERFICIAL 5

Program	E-0145 diadynamic current LP
Therapy parameters	current: diadynamics type: LP cc/cv mode: cc polarity: positive base: 5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	active small cathode (up to 10 cm2) above the trigger point of pain in the treated muscle, indifferent large anode (100 cm2) contralateral
Length of application	5 min.
Frequency of treatments	daily
Number of treatments	4 - 8
Intensity	at threshold motor level for the 50 Hz component, above threshold sensitivity for the 100 Hz component
Effect	myorelaxation, analgesic
	(184)

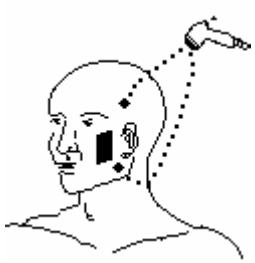
158 TRISMUS

Program	E-7617 high voltage therapy
Therapy parameters	current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 70 Hz modulation: random frequency contact check: no
Position of electrodes	active point electrode up to 1 cm², above the reflex changes in m. temporalis and m. masseter, indifferent electrode 4x6 cm above os zygomaticum
Length of application	1-2 min. above each reflex change
Frequency of treatments	daily
Number of treatments	3
Intensity	above threshold motor level at the point of reflex change, do not increase during therapy
Effect	myostimulation, then myorelaxation
Note	The indifferent electrode should be best self-adhesive. Dynamic application by point electrode in the diagnostic stage, static application in the therapeutic stage. In the therapeutic stage there is intermittent contraction of fibres with reflex change in correlation with randomization of frequency. (189)



159 TRISMUS 2

Program	E-3513 combined therapy - ultrasound + tens
Therapy parameters	current: TENS + usnd. type: asymmetric cc/cv mode: cv polarity: negative pulse: 100 us pulse freq.: 100 Hz modulation: constant frequency contact check: no usnd. frequency: 3 MHz usnd. intensity: 0.4 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic
Position of electrodes	the active electrode (cathode) is the ultrasound head - dynamic in the diagnostic mode, semistatic in the therapeutic mode above the reflex change in m. masseter, indifferent plate electrode 4x6 cm at the cheek at the same side
Length of application	1 min. above each reflex change
Frequency of treatments	daily
Number of treatments	3
Intensity	above threshold sensitivity out of the point of reflex change, threshold motor at the point of reflex change
Effect	myorelaxation
Note	The indifferent electrode should be best self-adhesive. CV mode. Usnd. ERA: 1 cm² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-5814, U-1006. (190)



160 VESICA URINARIA ATONICA

Program	E-0862 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 1 Hz spectrum: 99 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes
Position of electrodes	plate electrodes 100 cm2 so that the current circuits spatially intersect in the lumbar area (symmetric right and left above the symphysis and at the lower lumbar area)
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	10 - 20
Intensity	above threshold sensitivity
Effect	myostimulation, trophic (192)

161 WRINKLE REDUCTION - PERIORAL

Program	E-3558 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (574)

162 WRINKLE REDUCTION - PERIORBITAL

Program	E-3557 comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters	current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (572)